

S/M No. : TCM905BEF0

Service Manual

Colour Television

CHASSIS : CM-905

Model : DTD-29M1/M2/G1/G4/G5 MEO

29M1/M2/G1/G4/G5 MTO

29M1/M2/G1/G4/G5 MPO

29M1/M2/G1/G4/G5 MZO

25G1/G4/G5 ME

25G1/G4/G5 MT

25G1/G4/G5 MP

25G1/G4/G5 MZ

MODEL OIPTION LIST

MODEL	TEXT	PIP
MEO	O	O
MTO	O	X
MPO	X	O
MZO	X	X

DAEWOO ELECTRONICS CO., LTD

[http : //svc.dwe.co.kr](http://svc.dwe.co.kr)

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TABLE OF CONTENTS

SPECIFICATIONS	2
SAFETY INSTRUCTION	3
CIRCUIT BLOCK DIAGRAM	4
ALIGNMENT INSTRUCTIONS	5
CM-905 TYPICAL SERVICE DATA	8
SCHEMATIC DIAGRAM	11
PRINTED CIRCUIT BOARD	12
MECHANICAL EXPLODED VIEW AND PARTS LIST	18
ELECTRICAL PARTS LIST	20
CM-905 EACH MODEL PARTS LIST	31

APPENDIX (“Appendix is provided only by internet [<http://svc.dwe.co.kr>]”)

IC DESCRIPTION	1
TROUBLE SHOOTING CHARTS	14

SPECIFICATIONS

Items	Model	DTD- 29M1/M2/G1/G4/G5 MEO 29M1/M2/G1/G4/G5 MTO 29M1/M2/G1/G4/G5 MPO 29M1/M2/G1/G4/G5 MZO 25G1/G4/G5 ME 25G1/G4/G5 MT 25G1/G4/G5 MP 25G1/G4/G5 MZ
TV Standards		PAL-SECAM-B/G,D/K,I,NTSC-M,NTSC-4.43(AV)
Mains Voltage		AC 110~250V, 50/60Hz
Power Consumption		130Watts
Sound Output		7Watts + 7Watts Over (80% MOD.at 1KHz THD.10%)
Speaker		12W 8 Ohm (2 pcs)
Antenna		75 Ohm Unbalanced. (DIN Standard)
Tuning System		FS Tuning System
Memory Channel		100 Channels
Remocon Control		R-44C07
Reception Channel		VHF - BAND1 : CH2 - CH4 BAND2 : CH5 - CH12 CABLE BAND : S1' - S3, S1 - S20 HYPER BAND : S21 - S41 UHF-BAND 4,5 : CH21 - CH69
Remark		OSD (GUI Format) TELETEXT (Top & Flop Teletext) PIP (AV PIP, Swap, Size, Position) Digital Eye

SAFETY INSTRUCTION

NOTE

BEFORE SERVICING THIS CHASSIS READ THE “X-RAY RADIATION PRECAUTIONS”, “SAFETY PRECAUTIONS” AND “PRODUCT SAFETY NOTICE” BELOW.

X-RAY RADIATION PRECAUTIONS

1. Excessive high voltage can produce potentially hazardous X-RAY RADIATION. To avoid such hazards, the high voltage must not exceed the specified limit. The nominal value of the high voltage of this receiver is 29kV(29”) at max beam current. The high voltage must not, under any circumstances, exceed 30.5kV(29”). Each time a receiver requires servicing, the high voltage should be checked. It is recommended the reading of the high voltage recorded as a part of the service recorded as a part of the service records. It is important to use an accurate and reliable high voltage meter.
2. The only source of X-RAY RADIATION in this TV receiver is the picture tube. For continuous RADIATION protection, the replacement tube must be exactly the same type tube as specified in the “PART LIST”.

SAFETY PRECAUTIONS

1. Potentials of high voltage are present when this receiver is operating. Operation of the receiver outside the cabinet or with the back cover removed involves a shock hazard from the receiver.
 - 1) Servicing should not be attempted by anyone who is not thoroughly familiar with the precautions necessary when working on high voltage equipment.
 - 2) Always discharge the picture tube to avoid the shock hazard before removing the anode cap.
 - 3) Discharge the high potential of the picture tube before handling the tube. The picture tube is highly evacuated and if broken, glass fragments will be violently expelled.
2. If any FUSE in this TV receiver is blown, replace it with the FUSE specified in the “PART LIST”.
3. When replacing a high wattage resistor (oxide metal film resistor) in circuit board, keep the resistor 10mm away from circuit board.
4. Keep wires away from high voltage or high temperature components.
5. This receiver must operate between AC 100~240 volts, 50/60Hz. NEVER connect to DC supply or any other power or frequency.

PRODUCT SAFETY

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the X-RAY RADIATION protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this manual and its supple-

ments, electrical components having such features are identified by designated symbol  on the “PART LIST”. Before replacing any of these components, read the “PART LIST” in this manual carefully. The use of substitute replacement part which do not have the same safety characteristics as specified in the “PART LIST” may create X-RAY RADIATION.

CIRCUIT BLOCK DIAGRAM



ALIGNMENT INSTRUCTIONS

1. AGC ADJUSTMENT

- 1) Pattern : PAL B/G 10CH Color BAR (RF Level = 60 dB)
- 2) Connect the Pattern Generator RF Output to Tuner RF Input.
- 3) Press the S10 Key of Service Remocon to enter the "AGC MODE".
- 4) Execute the "AUTO AGC" using the Vol-Up Key.

2. SCREEN ADJUSTMENT

- 1) Pattern : PAL B/G Retma
- 2) Press the NORMAL Key to set the "NORMAL 1" mode.
- 3) Press the S2 Key of Service Remocon.
- 4) Adjust the SCREEN VOLUME on FBT so that the horizontal line reach the cut-off point.

3. FOCUS ADJUSTMENT

- 1) Pattern : PAL B/G Retma
- 2) Adjust the FOCUS VOLUME on FBT to obtain clear resolution.

4. WHITE BALANCE ADJUSTMENT

- 1) Press the NORMAL Key to set the "NORMAL 1" mode.
- 2) Press the S8 Key of Service Remocon to enter the "WHITE BALANCE" mode.
- 3) Adjust the each color (R,G,B) which appears abnormally on the screen.

5. GEOMETRIC ADJUSTMENT

- 1) Press the NORMAL Key to set the "NORMAL 1" mode.
- 2) Press the S6 Key of Service Remocon to enter the "GEOMETRIC" mode.

5-1. VERTICAL CENTER ADJUSTMENT

- 1) Pattern : PAL B/G Retma
- 2) Choose the "V-CENTER" using the Pr-Up/Down Keys.
- 3) Adjust the horizontal line of picture to coincide with the mechanical center marks of the CRT using the Vol-Up/Down Keys.
* If the pattern is smaller than the screen, adjust the V-size to fit.

5-2. VERTICAL SIZE ADJUSTMENT

- 1) Pattern : PAL B/G Retma
- 2) Choose the "V-SIZE" using the Pr-Up/Down Keys.
- 3) Adjust the vertical size of the picture using the Vol-Up/Down Keys.

ALIGNMENT INSTRUCTIONS

5-3. HORIZONTAL CENTER ADJUSTMENT

- 1) Pattern : PAL B/G Retma
- 2) Choose the "H-CENTER" using the Pr-Up/Down Keys.
- 3) Adjust the vertical line of picture to coincide with the mechanical center marks of the CRT using the Vol-Up/Down Keys.

5-4. HORIZONTAL SIZE ADJUSTMENT

- 1) Pattern : PAL B/G Retma
- 2) Choose the "H-SIZE" using the Pr-Up/Down Keys.
- 3) Set each side over scan to be 10% using the Vol-up/Down Keys.

5-5. PINCUSHION ADJUSTMENT

- 1) Pattern : PAL B/G Crosshatch
- 2) Choose the "PARABOLA" using the Pr-Up/Down Keys.
Adjust parabola width to fit on screen.
- 3) Choose the "CONER" using the Pr-Up/Down Keys.
Adjust coner parabola to fit on screen.
- 4) Choose the "TRAPEZIUM" using the Pr-Up/Down Keys,
Adjust trapezium to fit on screen.

5-6. S-CORRECTION ADJUSTMENT

- 1) Pattern : PAL B/G Crosshatch
- 2) Choose the "S-CORRECTION" using the Pr-Up/Down Keys.
- 3) Adjust each distance of horizontal line to be the same using the Vol-Up/Down Keys.

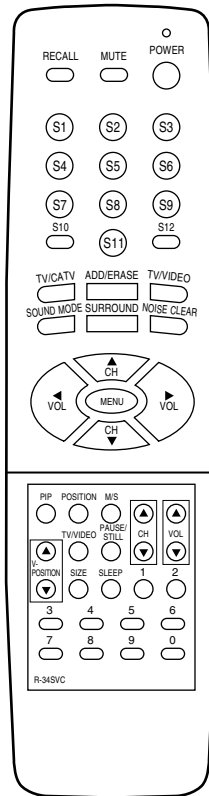
5-7. SUB-BRIGHTNESS ADJUSTMENT

- 1) Pattern : PAL B/G Retma
- 2) Press the NORMAL Keys to set the "NORMAL 1" mode.
- 3) Adjust the Brightness so that the second line of top appears, as follow.

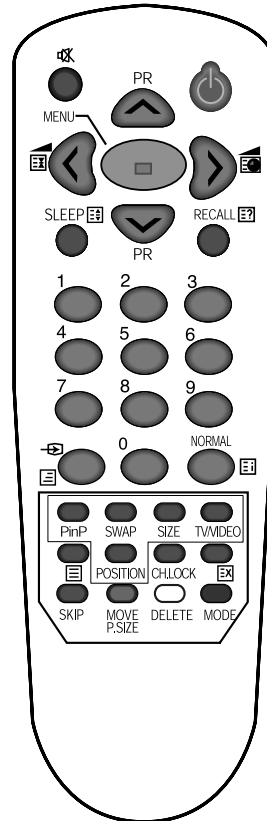


6. REMOCON

6-1. SERVICE REMOCON



6-2. USER REMOCON



6-3. SERVICE REMOCON

- 1) Enter SERVICE MODE : Press keys of User Remocon, as follows.
Ch91, Sharpness 0, Skip(red), Move(green), Menu.
- 2) Choice SERVICE MENU : Pr-Up/Down
- 3) Enter SERVICE SUB MENU : Vol-Up/Down
- 4) Adjust SERVICE MENU : Vol-Up/Down

CM-905 TYPICAL SERVICE DATA

CM-905 SVC KEY & FUNCTION DESCRIPTION				
EY N	NAME	RFUNCTION		
S1	HEATRUN MODE	PRESS THE S1 ONE TIME ----> PRESS THE S1 ANOTHER TIME		ON/OFF
		(HEATRUN MODE) (NORMAL OPRATION)		
S2	SCREEN ADJUSTMENT	* FBT SCREEN ADJUSTMENT		
		PRESS THE S2 ON TIME ----> PRESS THE S2 ANOTHER TIME		ON/OFF
		(HORIZONTAL KINE) (NORMAL OPRATION)		
S3	SOUND TEST	* SOUND TEST		
		PRESS THE S3 KEY IS TOGGLE		Line Production
		VOLUME 00 ----> VOLUME 32 ----> VOLUME 63----		
		BALANS LEFT ----> BALANS RIGHT ----> BALANS 00 ----> RELEASE		
S4	PICTURE TEST	* PICTURE TEST		
		PRESS THE S4 KEY IS TOGGLE		Line Production
		CONTRAST 00 ----> CONTRASR 32 ----> CONTRAST 63 ---->		
		RRIGHT 00 ----> BRIGHT 32 ----> BRIGHT 63 ---->		
		COLOR 00 ----> COLOR 32 ----> COLOR 63 ----> RELEASE		
S5	NORMAL1	* ADJUST NORMAL1 DATA		INITIAL DATA
		CONTRAST 63		63
		RRIGHT 32		32
		COLOR 32		32
		SHARPNESS 32		32
S6	NAME	* ADJUST GEOMETRY DATA		
		50 Hz (29") NORMAL	50 Hz (25") NORMAL	INITIAL DATA(50Hz)
	V-CENTER	03	05	04
	V-SIZE	28	42	27
	H-CENTER	13	13	14
	H-SIZE	44	41	58
	PARABORA	22	40	27
	TRAPEZIUM	17	16	15
	CORNER	04	05	05
	H-EHT	03	03	03
	S-CORRECTION	08	08	07
	V-LINEARITY	10	09	09
	V-EHT	03	03	03
S7	PIP	* ADJUST PIP DATA		INITIAL DATA
		29"	25"	
	R	180	180	128
	G	180	180	128
	B	180	180	128

CM-905 SVC KEY & FUNCTION DESCRIPTION				
S8	WHITE BALANCE	* ADJUST WHITE BALANCE DATA		
	RB	R LOW BEAM ADJUSTMENT	128	
	GB	G LOW BEAM ADJUSTMENT	0	
	BB	B LOW BEAM ADJUSTMENT	0	
	GG	G HIGH BEAM ADJUSTMENT	64	
	BG	B HIGH BEAM ADJUSTMENT	32	
S9	SUB-BRIGHT	ADJUST BRIGHTNESS DATA	15	
	SUB-CONTRAST	ADJUST SUB CONTRAST DATA	15	
S10		* MAIN RF AGC ADJUSTMENT KEY		
	AGC	TUNER AGC VOLTAGE 3.5Vdc		
	AUTO-AGC			
	DATA	32		
S11		* OPTION MODE ADJUSTMENT KEY		INITIAL DATA
	TEXT	ARABIC/CYRILLIC/IRANIAN/EAST-LATIN//WEST-LATIN		ARABIC
	POWER-ON-START	ON/OFF		ON
	DIGITAL EYE	ON/OFF		ON
S12		* OUT DATA		
	PICTURE	NORMAL 1		
	BLUE SCREEN	ON		
	CLOCK	--:--		
	ON TIMER	--:--		
	ON TIMER ON/OFF	OFF		
	ON PR	1		
	OFF TIMER	--:--		
	OFF TIMER ON/OFF	OFF		
	LANGUAGE	ENGLISH		
	COLOR SYSTEM	PAL		
	SOUND SYSTEM	BG		
	SOUND MODE	MEMORY		
	NAME(EACH PR)	----		
	TV/AV1/AV2	TV		
	TV/TEXT	TV		
	LAST PR	1		
	VOLUME	20		
	PICTURE SIZE	NORMAL (4:3)		

CM-905S/SF TYPICAL SERVICE DATA

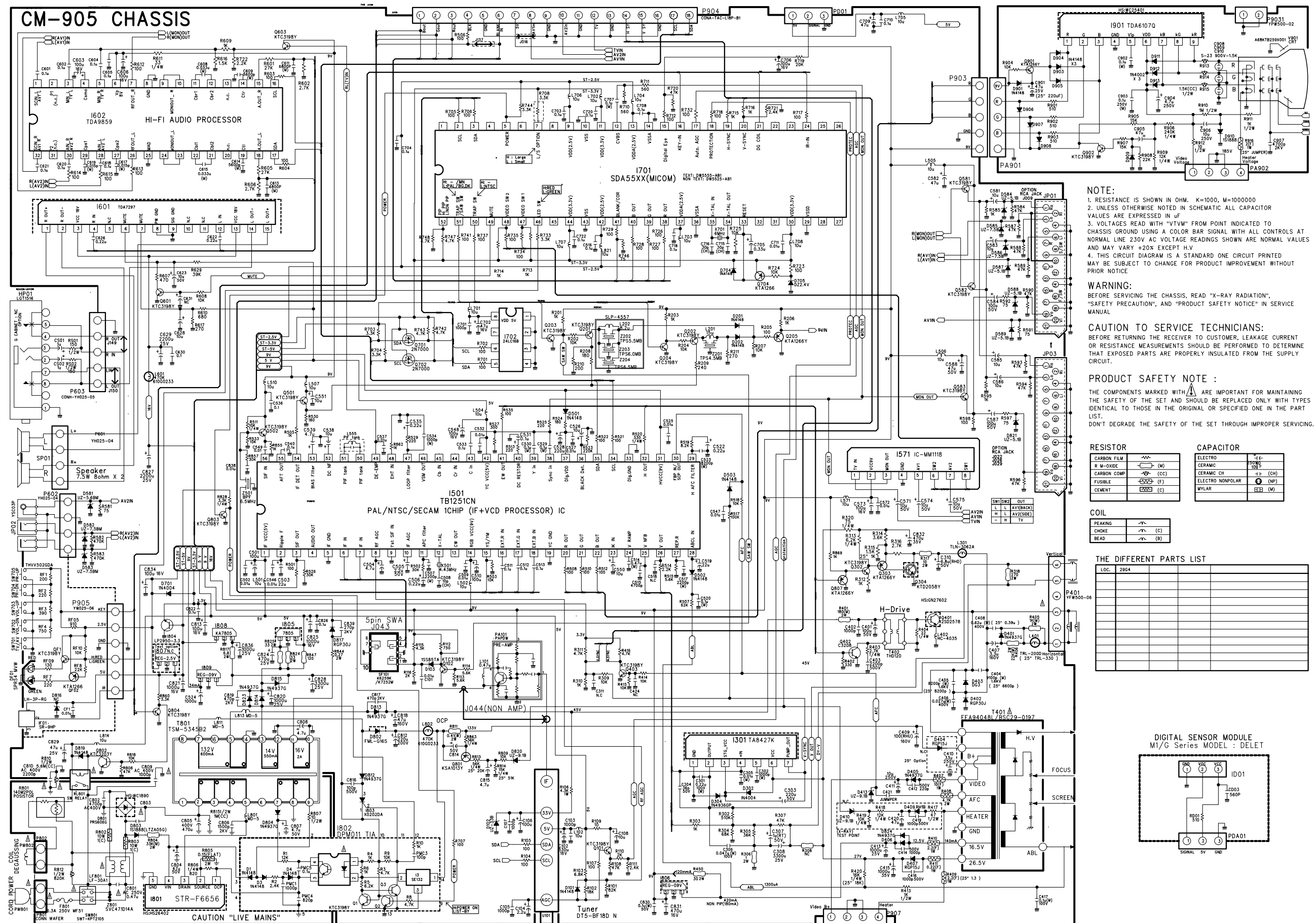
CM-905 SVC KEY & FUNCTION DESCRIPTION

S12	CHILD LOCK	OFF	
	CH LOCK	OFF	

SUB MENU

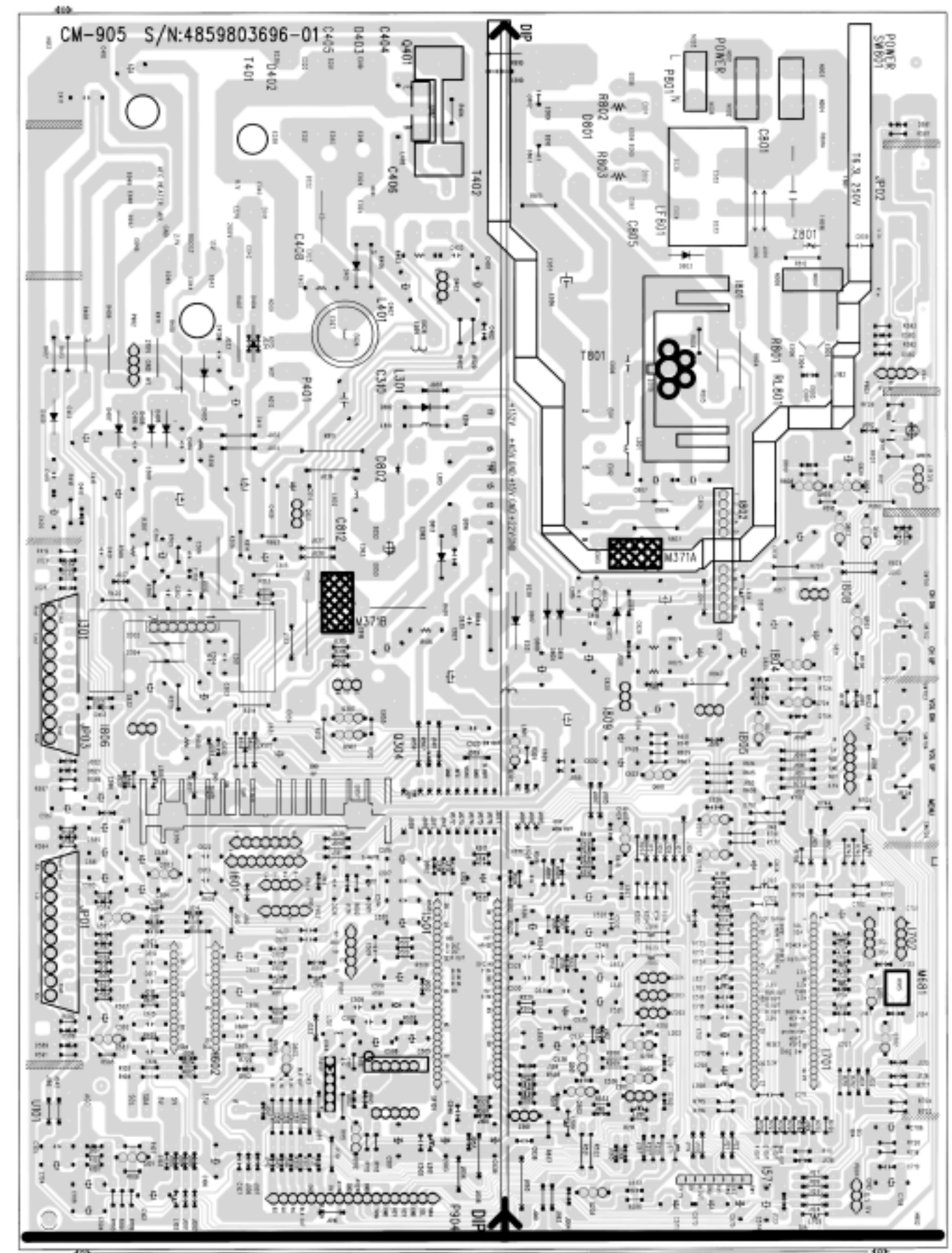
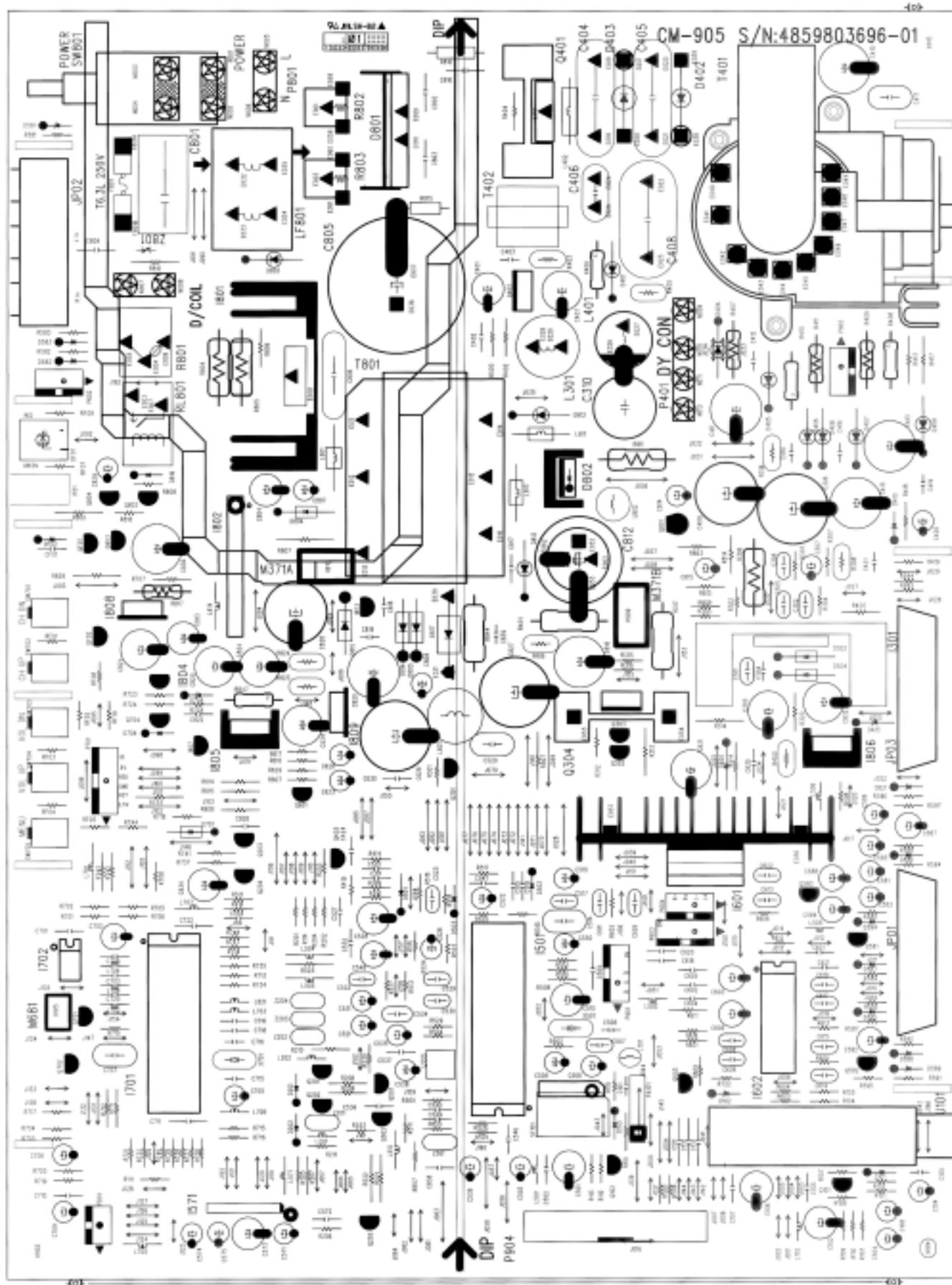
NO	NAME	SERVICE REMOCON NAME	RFUNCTION	INITIAL DATA
1	PIP ON / OFF (PIP)	PIP	ON/OFF display a sub-picture	OFF
2	SWAP (PIP)	M/S	The main picture and sub-picture are swapped	
3	SIZE (PIP)	PAUSE/ STILL	The sub-picture will be smaller. To return to be normal size, Press this button again.	
4	TV / VIDEO (PIP)	TV/VIDEO	To select the input for the sub picture	
5	POSITION (PIP)	POSITION	The display position of the sub-picture will changed	
6	SCREEN	 V-POSITION	S2 DATA changed	
			RB 128	128
			GB 0	0
			BB 0	0
			GG 64	64
			BG 64	64
			Brightness 32	32
7	DIGITAL EYE	V-POSITION 	DIGITAL EYE funtion ON/OFF	
8	ZOOM	SIZE	Picture size changed (4:3 -> 16:9 -> ZOOM -> 4:3 ->)	
9	TEXT	SLEEP	TEXT funtion ON/OFF	
10	CH UP	 CH	USING the SERVICE MODE to Channel UP/DOWN	
11	CH DOWN	 CH		
12	RESISTER	 VOL	USING the FACTIRY KEY	
13	RELEASE	 VOL		

SCHEMATIC DIAGRAM

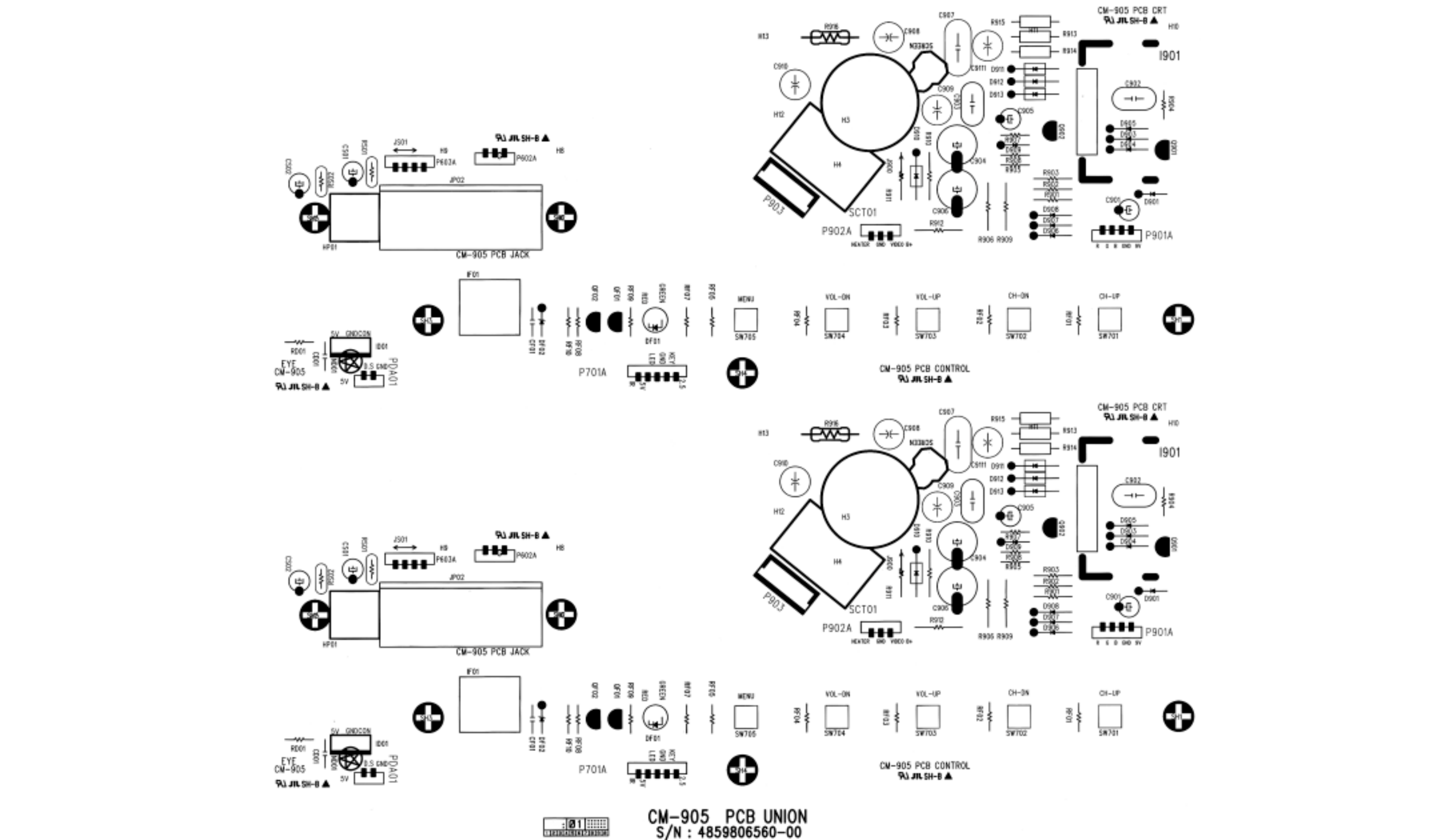


PRINTED CIRCUIT BOARD

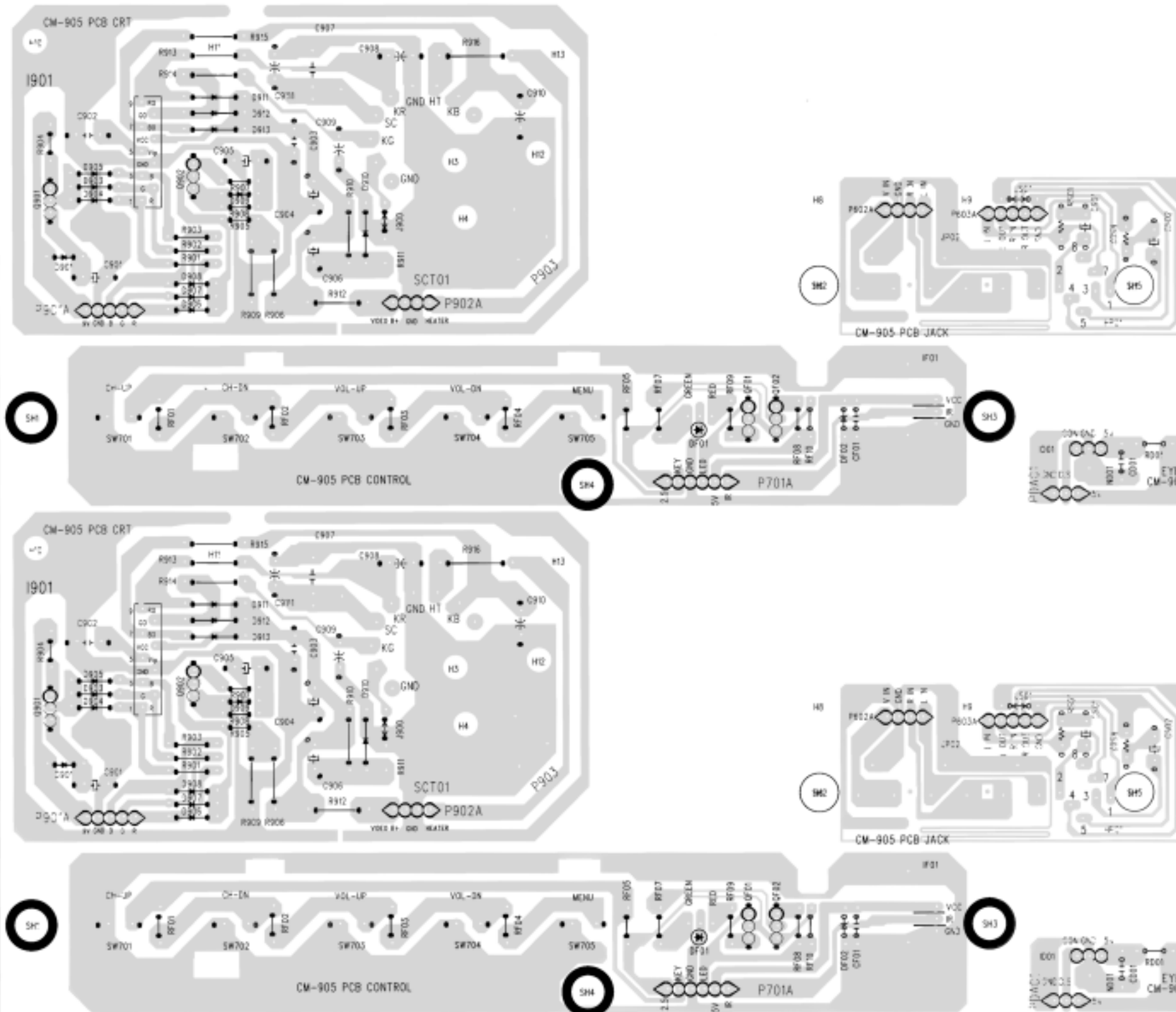
PCB MAIN



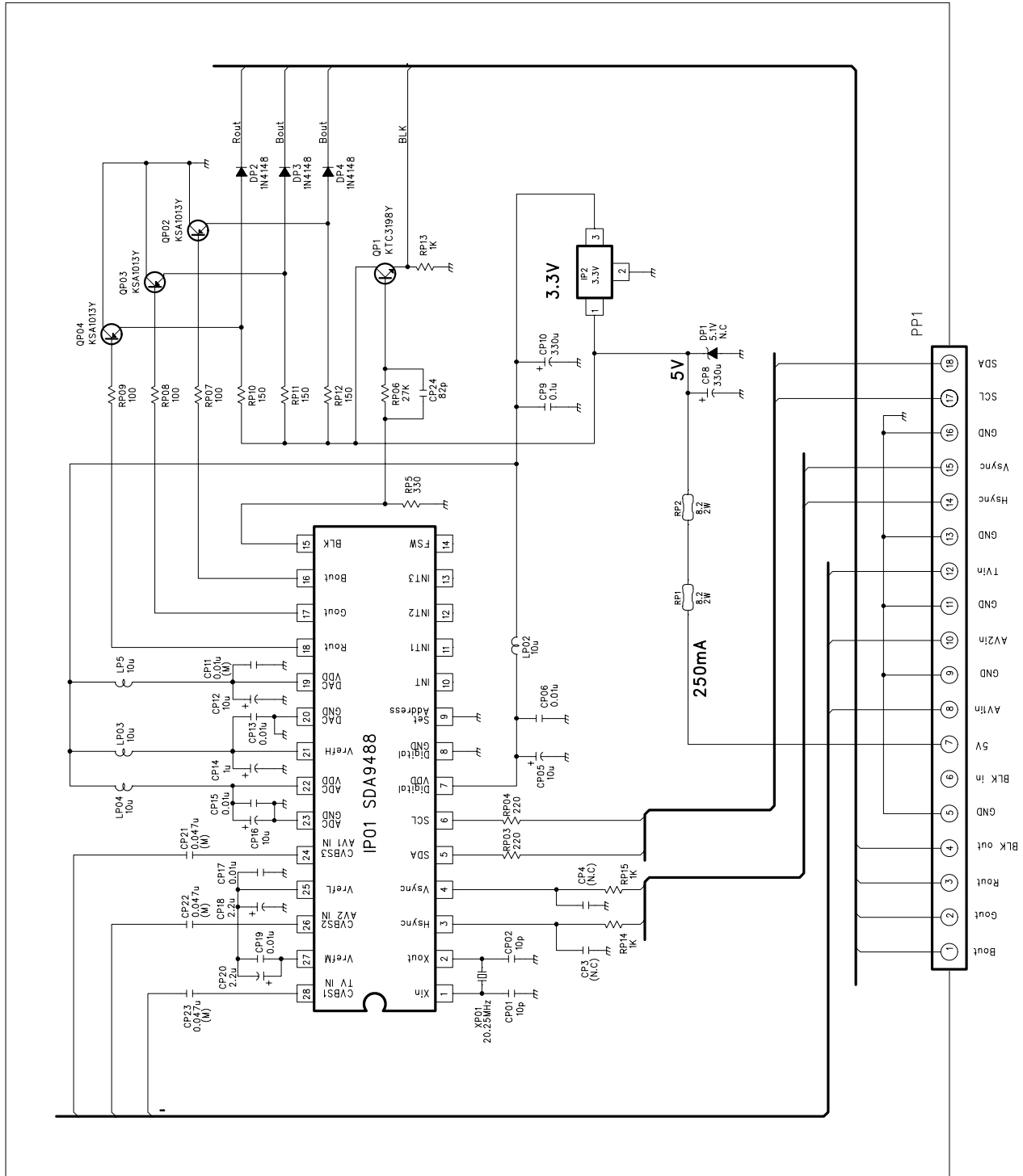
PRINTED CIRCUIT BOARD



PRINTED CIRCUIT BOARD

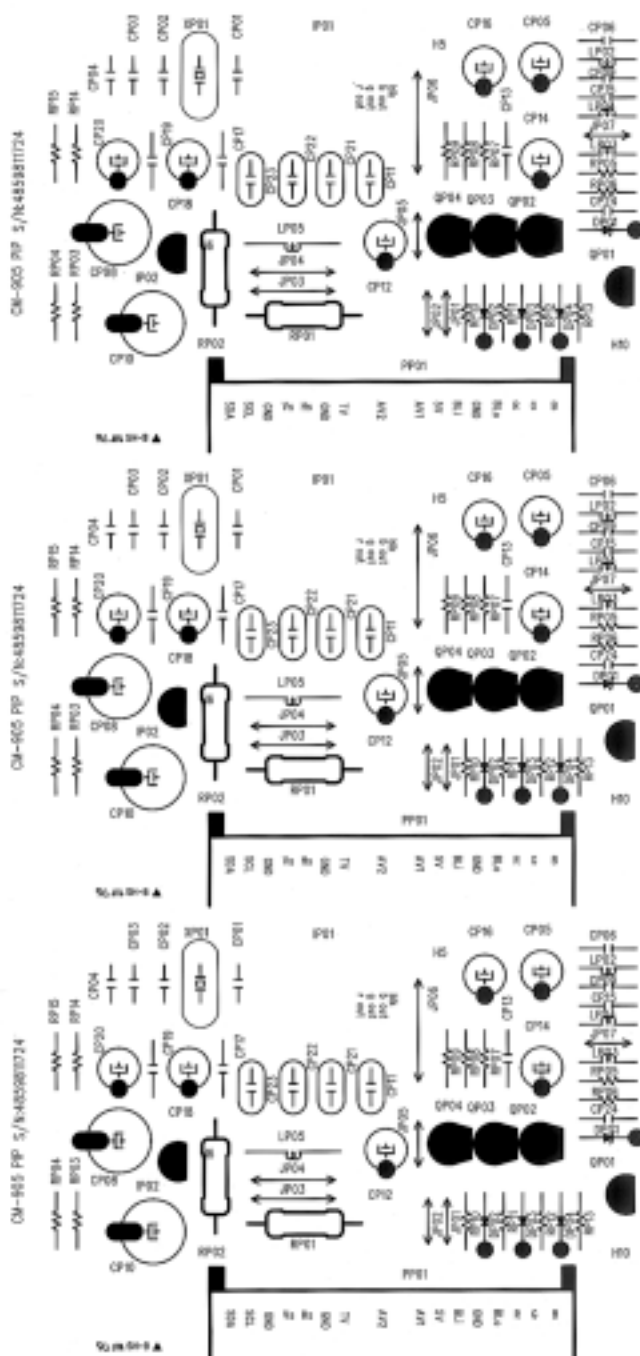
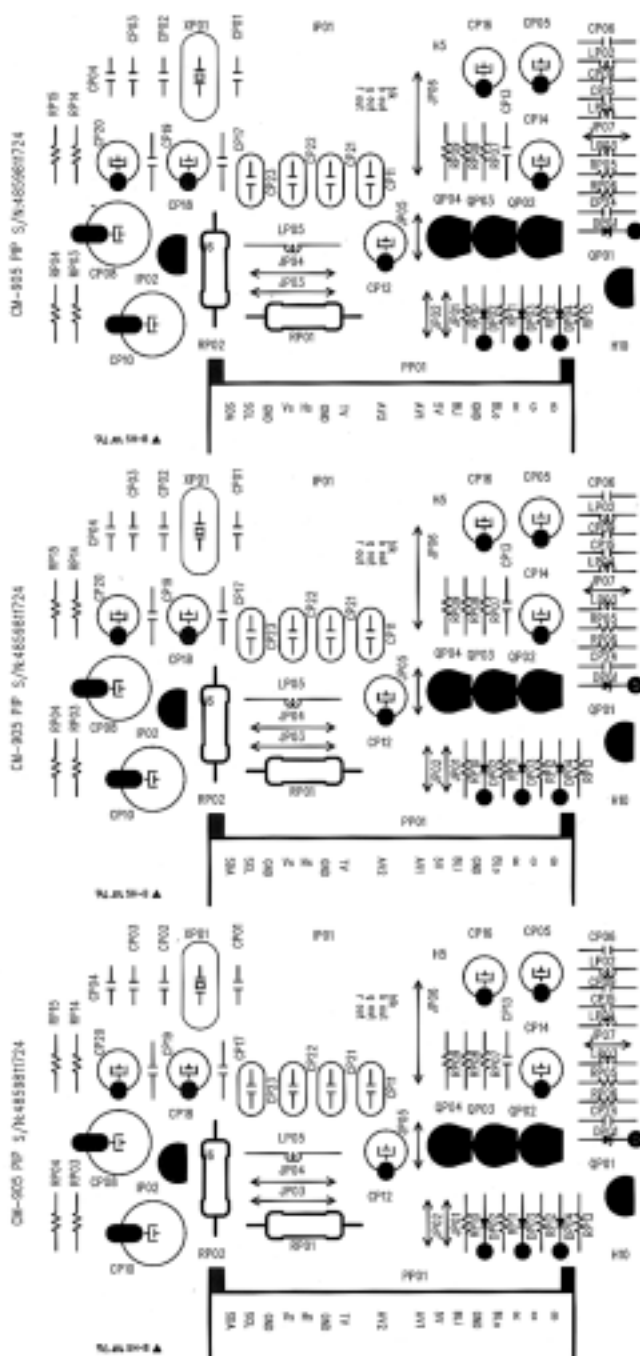


SCHEMATIC DIAGRAM



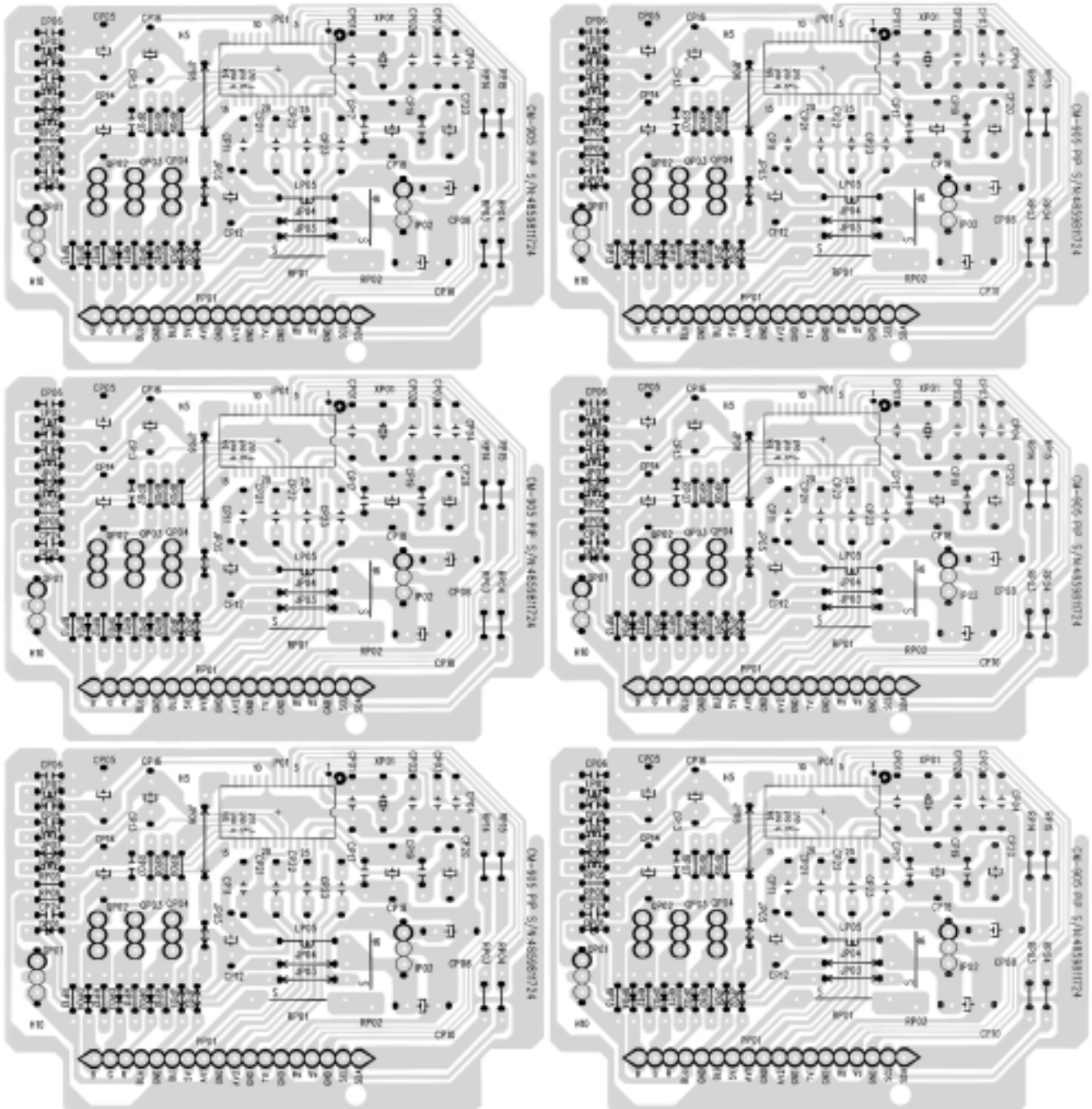
DAEWOO ELEC. CO., LTD.
CM-905 PIP BOARD
2000,11,13
REVISION; PIP 1
S/N;4859811724

CM-905 PIP PCB



S/N: 4859811724

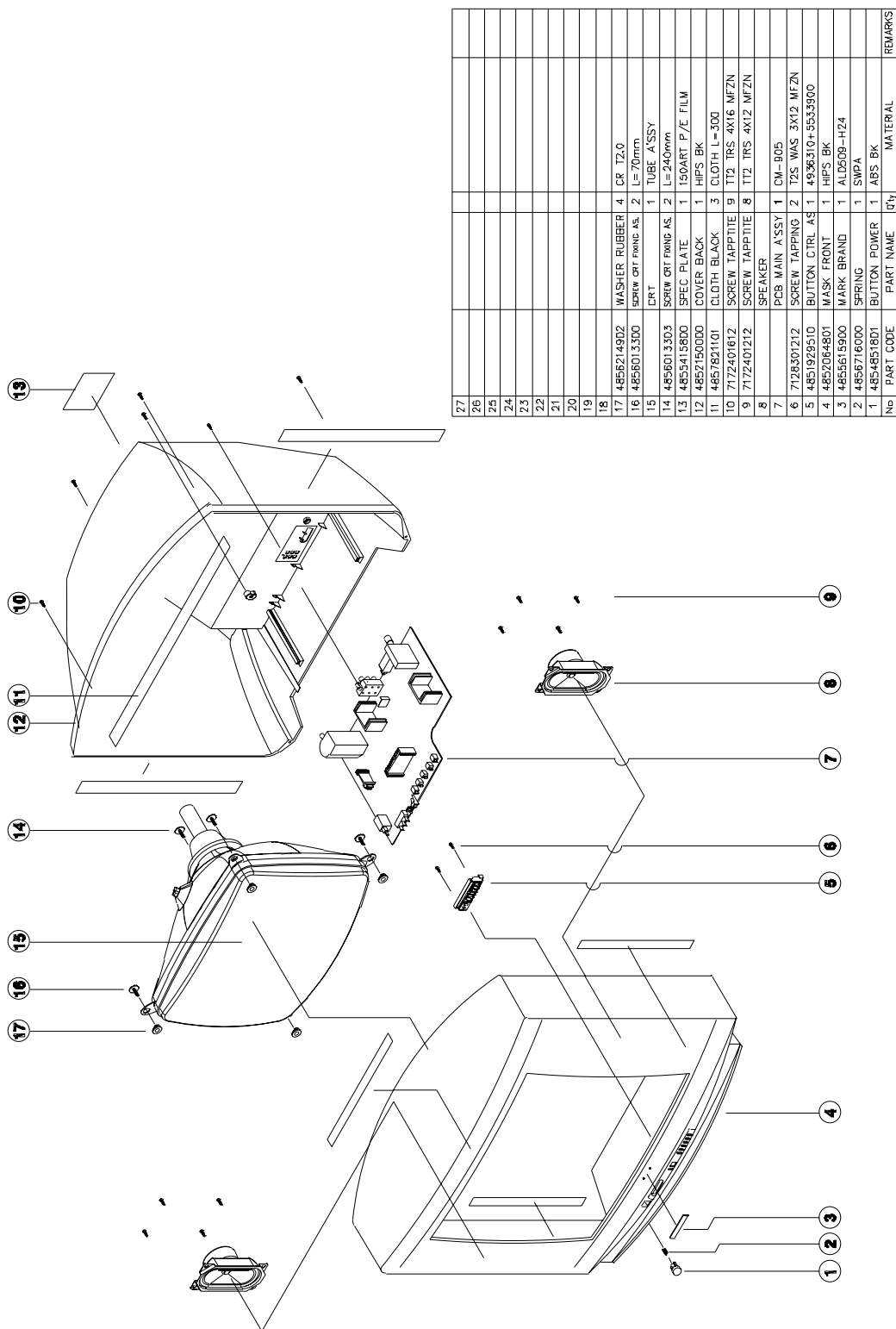
CM-905 PIP PCB 246 X 198
87.75 X 60 X 6



S/N: 4859811724

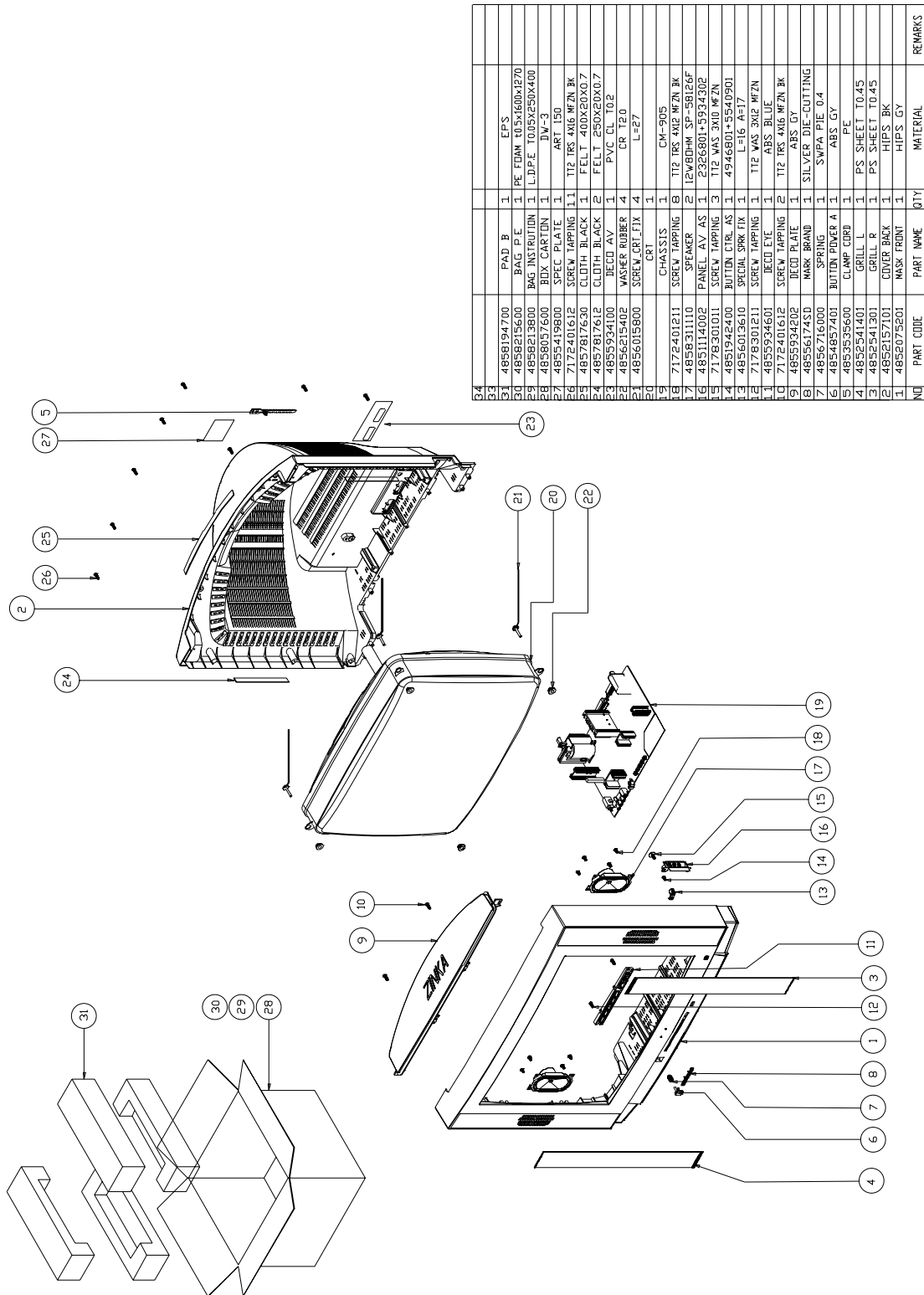
MECHANICAL EXPLODED VIEW AND PARTS LIST

1. DTD-25G1



MECHANICAL EXPLODED VIEW AND PARTS LIST

2. DTD-29M2MEO



ELECTRICAL PARTS LIST

LOC	PART CODE	PART NAME	DESCRIPTION	REMARK	LOC	PART CODE	PART NAME	DESCRIPTION	REMARK
ZZ100	48B4844C07	TRANSMITTER REMOCON	R-44C07 (AA)		SP01	4858311110	SPEAKER	12W 8 OHM SP-58126F	
ZZ110	PTACPWD405	ACCESSORY AS	DTD-29M2MEO		SP02	4858311110	SPEAKER	12W 8 OHM SP-58126F	
100	4850Q00810	BATTERY	R6P/LN		ZZ290	PTMPMSD405	PCB MAIN MANUAL AS	DTD-29M2MEO	
10000	48586054K1	MANUAL INSTRUCTION	DTM-2082CW		C308	CEYF1E332V	C ELECTRO	25V RSS 3300MF (16X31.5)	
M821	4858213800	BAG INSTRUCTION	L.D.PE T0.05X250X400		C310	CEYD1H689V	C ELECTRO	50V RUB 6.8MF (16*35.5)	
ZZ120	PTBCSHD405	COVER BACK AS	DTD-29M2MEO		C404	CMYH3C912J	C MYLAR	1.6KV BUP 9100PF J	
M211	4852157101	COVER BACK	HIPS BK		C405	CMYH3C822J	C MYLAR	1.6KV BUP 8200PF J	
M781	4857817630	CLOTH BLACK	FELT 400X20X0.7		C406	CMY2G273J	C MYLAR	400V PU 0.027MF J	
M782	4857817612	CLOTH BLACK	FELT 250X20X0.7		C408	CMY2G624J	C MYLAR	400V PU 0.62MF J	
ZZ130	PTPKCPD405	PACKING AS	DTD-29M2MEO		C801	CL1UC3474M	C LINE ACROSS	0.47MF 1J(UCVSNDF/SV)+Q/O	
M681	4856812400	BAND PP AUTO	0.95X17mmX1000m		C805	CEYN2G331P	C ELECTRO	400V LHS 330MF (30X45)	
M801	4858057600	BOX CARTON	DW-3		C806	CBYB3D152K	C CERA SEMI	2KV BL(N) 1500PF K	
M811	4858194700	PAD B	EPS		C809	CH1HFE102M	C CERA AC	4.0KV 1000PF E DG	
M821	4858215600	BAG PE	PE FOAM t0.5x1600x1270		C810	CH1BFE222M	C CERA AC	U/C/V AC400V 2200PF	
ZZ131	48519A4210	CRT GROUND NET	2901H-1015-2P		C812	CEYF2C221V	C ELECTRO	160V RSS 220MF (18X35.5)	
ZZ132	58G0000149	COIL DEGAUSSING	DC-29SF		C828	CEYF1E332V	C ELECTRO	25V RSS 3300MF (16X31.5)	
ZZ140	PTCACAD405	CABINET AS	DTD-29M2MEO		D402	DRGP30J---	DIODE	RGP30J	
M191A	7178301011	SCREW TAPPTITE	TT2 WAS 3X10 MFZN		D403	DDG3-----	DIODE	DG3	
M201A	4856015800	SCREW CRT FIX	L=27		D801	PTA1SW8900	HEAT SINK ASS'Y	DPBS606GU- + 7174300811	
M201B	4856215402	WASHER RUBBER	CR T2.0		1	DPBS606GU-	DIODE BRIDGE	PBS606G	
M201C	4856013610	SCREW SPKR FIX	L=16 A=17		0000A	4857018900	HEAT SINK	A1050P-H24 T1.6	
M201D	4856816300	CLAMP WIRE	NYLON 6 (V0)		0000B	7174300811	SCREW TAPPTITE	TT2 RND 3X8 MFZN	
M211A	7172401612	SCREW TAPPTITE	TT2 TRS 4X16 MFZN BK		D802	PTS2SW6900	HEAT SINK ASS'Y	DFMLG16S-- + 7128301011	
M211B	7172401612	SCREW TAPPTITE	TT2 TRS 4X16 MFZN BK		1	DFMLG16S--	DIODE	FML-G16S	
M211C	7172401612	SCREW TAPPTITE	TT2 TRS 4X16 MFZN BK		0000A	4857026900	HEAT SINK	AL EX	
M541	4855419800	SPEC PLATE	ART 150		0000B	7174300811	SCREW TAPPTITE	TT2 RND 3X8 MFZN	
M591	4855934202	DECO PLATE	ABS GY		D817	DEGP50D---	DIODE	EGP50D (TAPPING)	
M591A	7172401612	SCREW TAPPTITE	TT2 TRS 4X16 MFZN BK		F801	5F3GB6322L	FUSE GLASS TUBE	V/S TL 6.3A 250V MF51	
M593	4855934100	DECO AV	PVC CL T0.2		I301	PTA2SW6104	HEAT SINK ASS'Y	1TA8427K-- + 7174301011	
M681	4856812001	TIE CABLE	NYLON66 DA100		I301	1TA8427K--	IC	TA8427K	
M683	2TF00025CL	TAPE FILAMENT	25MM CLEAR		I301A	4857026104	HEAT SINK	AL EX BK	
SP01A	7172401212	SCREW TAPPTITE	TT2 TRS 4X12 MFZNCK		I301B	7174300811	SCREW TAPPTITE	TT2 RND 3X8 MFZN	
SP02A	7172401212	SCREW TAPPTITE	TT2 TRS 4X12 MFZNCK		I501	1TB1251N--	IC	TB1251N	
V901	4859633763	CRT	A68KTB359X001(B) P23		I571	1MM1118---	IC A/V SWITCH	MM1118	
ZZ200	PTFMSJD405	MASK FRONT AS	DTD-29M2MEO		I601	PTA2SW8218	HEAT SINK ASS'Y	1TDA7297-- + 7174301011	
M201	4852075201	MASK FRONT	HIPS GY		1	1TDA7297--	IC AUDIO AMP	TDA7297	
M251A	4852541301	GRILL R	PS T0.45		0000A	4857028218	HEAT SINK	AL EX BK	
M251B	4852541401	GRILL L	PS T0.45		0000B	7174301011	SCREW TAPPTITE	TT2 RND 3X10 MFZN	
M481	4854857401	BUTTON POWER A	ABS GY		I602	1TDA9859--	IC AUDIO PROCESSOR	TDA9859	
M481A	4856715600	SPRING	SWPA PIE 0.4		I701	1DW5555AB1	IC MICOM	DW5555-AB1	
M561	48556174SD	MARK BRAND	SILVER DIA-CUTTING		I702	124LC16B1B	IC MEMORY	24LC16B1B	
M592	4855934601	DECO EYE	ABS BLUE		I801	PTA2SW7920	HEAT SINK ASS'Y	1STRF6656- + 7174301011	
M592A	7178301212	SCREW TAPPTITE	TT2 WAS 3X12 MFZN BK		1	1STRF6656-	IC POWER	STR-F6656	
M781	4857818702	CLOTH BLACK	FELT T0.7 L=350 W=15		0000A	4857027920	HEAT SINK	AL EX BK	
M782	4857821102	CLOTH BLACK	FELT 340X10X1.5		0000B	7174301011	SCREW TAPPTITE	TT2 RND 3X10 MFZN	
ZZ201	PTSPPWD405	SPEAKER AS	DTD-29M2MEO		I802	4850M04810	MODULE POWER	DPM011 TI	
P601A	4850704S32	CONNECTOR	YH025-04+35098+ULW=900		I803	TX0202DA--	THYRISTOR	X0202DA1BA2	

ELECTRICAL PARTS LIST

LOC	PART CODE	PART NAME	DESCRIPTION	REMARK	LOC	PART CODE	PART NAME	DESCRIPTION	REMARK
I804	1LP295033-	IC REGULATOR	LP2950 3.3V		Z204	5PYXT6R5MB	FILTER CERA	XT 6.5MB	
I805	PTH2SW6900	HEAT SINK ASS'Y	1KA7805--- + 7174301011		Z501	5PXL76R5MH	FILTER CERA	LT 6.5MH	
1	1KA7805---	IC REGULATOR	KA7805		Z801	DSVC471D14	VARISTOR	SVC471D14A	
0000A	4857026900	HEAT SINK	AL EX		ZZ200	PTMPJ0D405	PCB MAIN (RHU) AS	DTD-29M2MEO	
0000B	7174300811	SCREW TAPPTITE	TT2 RND 3X8 MFZN		C303	CEXF1H221V	C ELECTRO	50V RSS 220MF (10X16) TP	
I806	PTH2SW6902	HEAT SINK ASS'Y	1K1A7809P1 + 7174301011		C409	CEXF2C101V	C ELECTRO	160V RSS 100MF (16X25) TP	
1	1K1A7809P1	IC REGULATOR	K1A7809API		C411	CEXF2E100V	C ELECTRO	250V RSS 10MF (10X20) TP	
0000A	4857026902	HEAT SINK	AL EX BK		C413	CEXF1E102V	C ELECTRO	25V RSS 1000MF (13X20) TP	
0000B	7174301011	SCREW TAPPTITE	TT2 RND 3X10 MFZN		C415	CEXF1V102V	C ELECTRO	35V RSS 1000MF (13X25) TP	
I808	1KA7805---	IC REGULATOR	KA7805		C524	CEXF1C102V	C ELECTRO	16V RSS 1000MF (10X20) TP	
I809	1K1A7809P1	IC REGULATOR	K1A7809API		C629	CEXF1E222V	C ELECTRO	25V RSS 2200MF (16X25) TP	
JP01	4859110950	JACK PIN BOARD	YS01-0001		C802	CH1BEE472M	C CERA AC	U/C/V 2.5KV 4700PF TP	
JP03	4859110950	JACK PIN BOARD	YS01-0001		C803	CH1BEE472M	C CERA AC	U/C/V 2.5KV 4700PF TP	
L301	58C7070085	COIL CHOKE	TLN-3062A		C817	CBXB3D471K	C CERA SEMI	2KV BL(N) 470PF K (T)	
L401	58H0000039	COIL H-LINEARITY	TRL-200D		C818	CEXF2C470V	C ELECTRO	160V RSS 47MF (13X25) TP	
L555	58N0000045	COIL VCO	TRF-V011		C819	CBXB3D471K	C CERA SEMI	2KV BL(N) 470PF K (T)	
LF801	5PLF30A1-	FILTER LINE	LF-30A1		C820	CEXF1E102V	C ELECTRO	25V RSS 1000MF (13X20) TP	
M371A	4853747800	RETA PCB	NYLON 66		C821	CEXF1C102V	C ELECTRO	16V RSS 1000MF (10X20) TP	
M371B	4853747800	RETA PCB	NYLON 66		C824	CEXF1E471V	C ELECTRO	25V RSS 470MF (10X16) TP	
M683	4856812001	TIE CABLE	NYLON66 DA100		C825	CEXF1C102V	C ELECTRO	16V RSS 1000MF (10X20) TP	
P904	4859281320	CONN WAFER	TAC-L18X-A1		C827	CEXF1E222V	C ELECTRO	25V RSS 2200MF (16X25) TP	
PW801	4859908110	CORD POWER AS	1-LO+H03VVH2-F+HOU=2200		C831	CEXF1C471V	C ELECTRO	16V RSS 470MF (10X12.5)TP	
Q304	PTD2SW7609	HEAT SINK ASS'Y	TKTD2058Y- + 7174301011		C832	CEXF1V471V	C ELECTRO	35V RSS 470MF (10X20) TP	
1	TKTD2058Y-	TR	KTD 2058-Y		C836	CEXF1E102V	C ELECTRO	25V RSS 1000MF (13X20) TP	
0000A	4857027609	HEAT SINK	AL EX		C839	CCXB3D271K	C CERA	2KV B 270PF K (T)	
0000B	7174300811	SCREW TAPPTITE	TT2 RND 3X8 MFZN		ZZ200	PTMPJBD405	PCB MAIN M-10 AS	DTD-29M2MEO	
Q401	PTB2SW7609	HEAT SINK ASS'Y	T2SD2578-- + 7174300811		E001	4856310300	EYE LET	BSR T0.2 (R1.6)	
1	T2SD2578--	TR	2SD2578		E002	4856310300	EYE LET	BSR T0.2 (R1.6)	
0000A	4857027609	HEAT SINK	AL EX		E003	4856310300	EYE LET	BSR T0.2 (R1.6)	
0000B	7174300811	SCREW TAPPTITE	TT2 RND 3X8 MFZN		E004	4856310300	EYE LET	BSR T0.2 (R1.6)	
Q402	TKTC3208--	TR	KTC3208		E005	4856310300	EYE LET	BSR T0.2 (R1.6)	
R801	DPC7R0M290	POSISTOR	2322 662 96709		E006	4856310300	EYE LET	BSR T0.2 (R1.6)	
R802	RX10T109KS	R CEMENT	10W 1 OHM K TRIPOD SMALL		E007	4856310300	EYE LET	BSR T0.2 (R1.6)	
R803	RX10T109KS	R CEMENT	10W 1 OHM K TRIPOD SMALL		E008	4856310300	EYE LET	BSR T0.2 (R1.6)	
R811	RW02Z418F-	R WIRE WOUND	2W 0.41 OHM F		E009	4856310300	EYE LET	BSR T0.2 (R1.6)	
RL801	5SC0101338	SW RELAY	DQ5D1-O(M)/GJ-SS-105LM		E010	4856310300	EYE LET	BSR T0.2 (R1.6)	
SF101	5PK7252M--	FILTER SAW	K7252M		E011	4856310300	EYE LET	BSR T0.2 (R1.6)	
SW801	5S40202080	SW POWER PUSH	PS3-22 (PCB)		E012	4856310300	EYE LET	BSR T0.2 (R1.6)	
T401	50H0000222	FBT	BCS29-0197		E013	4856310300	EYE LET	BSR T0.2 (R1.6)	
T402	5TD0000018	TRANS DRIVE	THD-120		E014	4856310300	EYE LET	BSR T0.2 (R1.6)	
T402A	7178301212	SCREW TAPPTITE	TT2 WAS 3X12 MFZN BK		E015	4856310300	EYE LET	BSR T0.2 (R1.6)	
T801	50M5345B2-	TRANS SMPS	TSM-5345B2		E016	4856310300	EYE LET	BSR T0.2 (R1.6)	
U101	4859721530	TUNER VARACTOR	DT5-BF18D N		E017	4856310300	EYE LET	BSR T0.2 (R1.6)	
X701	5XE6R0000C	CRYSTAL QUARTZ	HC-49/U 6.000MHZ 20PPM		E018	4856310300	EYE LET	BSR T0.2 (R1.6)	
Z201	5PYXT4R5MB	FILTER CERA	XT 4.5MB		E019	4856310300	EYE LET	BSR T0.2 (R1.6)	
Z202	5PYXT5R5MB	FILTER CERA	XT 5.5MB		E020	4856310300	EYE LET	BSR T0.2 (R1.6)	
Z203	5PYXT6R0MB	FILTER CERA	XT 6.0MB		E021	4856310300	EYE LET	BSR T0.2 (R1.6)	

ELECTRICAL PARTS LIST

LOC	PART CODE	PART NAME	DESCRIPTION	REMARK	LOC	PART CODE	PART NAME	DESCRIPTION	REMARK
E022	4856310300	EYE LET	BSR T0.2 (R1.6)		N012	4857417500	TERM PIN	DA-IB0214(D2.3/DY PIN)	
E023	4856310300	EYE LET	BSR T0.2 (R1.6)		P602	485923172S	CONN WAFER	YW025-04 (STICK)	
E024	4856310300	EYE LET	BSR T0.2 (R1.6)		P603	485923182S	CONN WAFER	YW025-05 (STICK)	
E025	4856310300	EYE LET	BSR T0.2 (R1.6)		P604	485923172S	CONN WAFER	YW025-04 (STICK)	
E026	4856310300	EYE LET	BSR T0.2 (R1.6)		P701	485923192S	CONN WAFER	YW025-06 (STICK)	
E027	4856310300	EYE LET	BSR T0.2 (R1.6)		P901	485923182S	CONN WAFER	YW025-05 (STICK)	
E028	4856310300	EYE LET	BSR T0.2 (R1.6)		P902	485923172S	CONN WAFER	YW025-04 (STICK)	
E029	4856310300	EYE LET	BSR T0.2 (R1.6)		PD01	485923162S	CONN WAFER	YW025-03 (STICK)	
E030	4856310300	EYE LET	BSR T0.2 (R1.6)		R306	RS02Z109J-	R M-OXIDE FILM	2W 1 OHM J (TAPPING)	
E031	4856310300	EYE LET	BSR T0.2 (R1.6)		R317	RS02Z100J-	R M-OXIDE FILM	2W 10 OHM J (TAPPING)	
E032	4856310300	EYE LET	BSR T0.2 (R1.6)		R401	RS02Z181J-	R M-OXIDE FILM	2W 180 OHM J (TAPPING)	
E033	4856310300	EYE LET	BSR T0.2 (R1.6)		R406	RS02Z223JS	R M-OXIDE FILM	2W 22K OHM J SMALL	
E034	4856310300	EYE LET	BSR T0.2 (R1.6)		R407	RS01Z100J-	R M-OXIDE FILM	1W 10 OHM J (TAPPING)	
E035	4856310300	EYE LET	BSR T0.2 (R1.6)		R408	RS02Z472JS	R M-OXIDE FILM	2W 4.7K OHM J SMALL	
E036	4856310600	EYE LET	BSR T0.2 (R2.3)		R409	RS02Z229JS	R M-OXIDE FILM	2W 2.2 OHM J SMALL	
E037	4856310600	EYE LET	BSR T0.2 (R2.3)		R410	RS02Z229JS	R M-OXIDE FILM	2W 2.2 OHM J SMALL	
E038	4856310600	EYE LET	BSR T0.2 (R2.3)		R411	RS02Z228JS	R M-OXIDE FILM	2W 0.22 OHM J SMALL	
E039	4856310600	EYE LET	BSR T0.2 (R2.3)		R804	RS02Z333J-	R M-OXIDE FILM	2W 33K OHM J	
E040	4856310600	EYE LET	BSR T0.2 (R2.3)		R805	RF02Z158K-	R FUSIBLE	2W 0.15 OHM K (TAPPING)	
E041	4856310600	EYE LET	BSR T0.2 (R2.3)		R817	RS02Z569JS	R M-OXIDE FILM	2W 5.6 OHM J SMALL	
E042	4856310600	EYE LET	BSR T0.2 (R2.3)		R844	RF02Z158K-	R FUSIBLE	2W 0.15 OHM K (TAPPING)	
E043	4856310600	EYE LET	BSR T0.2 (R2.3)		R847	RS02Z101JS	R M-OXIDE FILM	2W 100 OHM J SMALL	
E044	4856310600	EYE LET	BSR T0.2 (R2.3)		ZZ200	PTMPJRD405	PCB MAIN RADIAL AS	DTD-29M2MEO	
E045	4856310600	EYE LET	BSR T0.2 (R2.3)		C101	CCXF1H103Z	C CERA	50V F 0.01MF Z (TAPPING)	
E046	4856310600	EYE LET	BSR T0.2 (R2.3)		C102	CEXF1C331V	C ELECTRO	16V RSS 330MF (8X11.5) TP	
E047	4856310600	EYE LET	BSR T0.2 (R2.3)		C104	CEXF1H220V	C ELECTRO	50V RSS 22MF (5X11) TP	
E048	4856310600	EYE LET	BSR T0.2 (R2.3)		C105	CCXB1H102K	C CERA	50V B 1000PF K (TAPPING)	
E049	4856310600	EYE LET	BSR T0.2 (R2.3)		C106	CEXF1H101V	C ELECTRO	50V RSS 100MF (8X11.5) TP	
E050	4856310600	EYE LET	BSR T0.2 (R2.3)		C108	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP	
E051	4856310600	EYE LET	BSR T0.2 (R2.3)		C301	CMXM2A224J	C MYLAR	100V 0.22MF J	
E054	4856310600	EYE LET	BSR T0.2 (R2.3)		C302	CMXM2A102J	C MYLAR	100V 1000PF J (TP)	
E055	4856310600	EYE LET	BSR T0.2 (R2.3)		C304	CXCH1H360J	C CERA	50V CH 36PF J (TAPPING)	
E056	4856310600	EYE LET	BSR T0.2 (R2.3)		C305	CMXM2A103J	C MYLAR	100V 0.01MF J (TP)	
E057	4856310600	EYE LET	BSR T0.2 (R2.3)		C306	CMXM2A473J	C MYLAR	100V 0.047MF J (TP)	
E058	4856310600	EYE LET	BSR T0.2 (R2.3)		C307	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP	
E059	4856310600	EYE LET	BSR T0.2 (R2.3)		C401	CEXF1H101V	C ELECTRO	50V RSS 100MF (8X11.5) TP	
E060	4856310600	EYE LET	BSR T0.2 (R2.3)		C403	CCXB2H222K	C CERA	500V B 2200PF K (TAPPING)	
E061	4856310600	EYE LET	BSR T0.2 (R2.3)		C407	CEXF2C339V	C ELECTRO	160V RSS 3.3MF (8X16) TP	
E062	4856310300	EYE LET	BSR T0.2 (R1.6)		C412	CCXB2H221K	C CERA	500V B 220PF K (TAPPING)	
E063	4856310300	EYE LET	BSR T0.2 (R1.6)		C414	CCXB2H102K	C CERA	500V B 1000PF K (TAPPING)	
N005	4857417500	TERM PIN	DA-IB0214(D2.3/DY PIN)		C416	CCXB2H102K	C CERA	500V B 1000PF K (TAPPING)	
N006	4857417500	TERM PIN	DA-IB0214(D2.3/DY PIN)		C417	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)	
N007	4857417500	TERM PIN	DA-IB0214(D2.3/DY PIN)		C501	CEXF1H101V	C ELECTRO	50V RSS 100MF (8X11.5) TP	
N008	4857417500	TERM PIN	DA-IB0214(D2.3/DY PIN)		C503	CEXF1H220V	C ELECTRO	50V RSS 22MF (5X11) TP	
N009	4857417500	TERM PIN	DA-IB0214(D2.3/DY PIN)		C504	CEXF1H479V	C ELECTRO	50V RSS 4.7MF (5X11) TP	
N010	4857417500	TERM PIN	DA-IB0214(D2.3/DY PIN)		C505	CEXF1H229V	C ELECTRO	50V RSS 2.2MF (5X11) TP	
N011	4857417500	TERM PIN	DA-IB0214(D2.3/DY PIN)		C506	CEXF1H228V	C ELECTRO	50V RSS 0.22MF (5X11) TP	

ELECTRICAL PARTS LIST

LOC	PART CODE	PART NAME	DESCRIPTION	REMARK	LOC	PART CODE	PART NAME	DESCRIPTION	REMARK
C507	CMXM2A222J	C MYLAR	100V 2200PF J (TP)		C628	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP	
C508	CXCH1H100D	C CERA	50V CH 10PF D (TAPPING)		C702	CEXF1E470V	C ELECTRO	25V RSS 47MF (5X11) TP	
C510	CEXF1H101V	C ELECTRO	50V RSS 100MF (8X11.5) TP		C705	CEXF1H338V	C ELECTRO	50V RSS 0.33MF (5X11) TP	
C514	CMXL1J474J	C MYLAR	63V MEU 0.47MF J		C706	CEXF1C101V	C ELECTRO	16V RSS 100MF (6.3X11) TP	
C517	CMXM2A222J	C MYLAR	100V 2200PF J (TP)		C707	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)	
C519	CEXF1H220V	C ELECTRO	50V RSS 22MF (5X11) TP		C709	CEXF1E470V	C ELECTRO	25V RSS 47MF (5X11) TP	
C520	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)		C715	CXCH1H270J	C CERA	50V CH 27PF J (TAPPING)	
C521	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP		C716	CXCH1H270J	C CERA	50V CH 27PF J (TAPPING)	
C522	CEXF1H228V	C ELECTRO	50V RSS 0.22MF (5X11) TP		C804	CEXF1E470V	C ELECTRO	25V RSS 47MF (5X11) TP	
C523	CMXM2A822J	C MYLAR	100V 8200PF J (TP)		C807	CEXF1H479V	C ELECTRO	50V RSS 4.7MF (5X11) TP	
C526	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP		C808	CEXF1H479V	C ELECTRO	50V RSS 4.7MF (5X11) TP	
C528	CEXF1C331V	C ELECTRO	16V RSS 330MF (8X11.5) TP		C813	CEXF1C101V	C ELECTRO	16V RSS 100MF (6.3X11) TP	
C529	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)		C814	CEXF1H220V	C ELECTRO	50V RSS 22MF (5X11) TP	
C530	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)		C815	CEXF1H479V	C ELECTRO	50V RSS 4.7MF (5X11) TP	
C531	CEXF1H108V	C ELECTRO	50V RSS 0.1MF (5X11) TP		C816	CCXB2H101K	C CERA	500V B 100PF K (TAPPING)	
C533	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)		C829	CEXF1E470V	C ELECTRO	25V RSS 47MF (5X11) TP	
C534	CMXM2A102J	C MYLAR	100V 1000PF J (TP)		C834	CEXF1C101V	C ELECTRO	16V RSS 100MF (6.3X11) TP	
C535	CEXF1H228V	C ELECTRO	50V RSS 0.22MF (5X11) TP		F801A	4857415001	CLIP FUSE	PFC5000-0702	
C538	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP		F801B	4857415001	CLIP FUSE	PFC5000-0702	
C539	CEXF1H479V	C ELECTRO	50V RSS 4.7MF (5X11) TP		L601	58C0000096	COIL CHOKE	610G0233(470K)	
C548	CEXF1C101V	C ELECTRO	16V RSS 100MF (6.3X11) TP		L802	58C0000096	COIL CHOKE	610G0233(470K)	
C550	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP		Q101	TKTC3198Y-	TR	KTC3198Y	
C571	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP		Q102	TKTC3198Y-	TR	KTC3198Y	
C573	CEXF1C101V	C ELECTRO	16V RSS 100MF (6.3X11) TP		Q201	TKTC3198Y-	TR	KTC3198Y	
C574	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP		Q202	TKTC3198Y-	TR	KTC3198Y	
C575	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP		Q203	TKTC3198Y-	TR	KTC3198Y	
C581	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP		Q204	TKTC3198Y-	TR	KTC3198Y	
C582	CEXF1E470V	C ELECTRO	25V RSS 47MF (5X11) TP		Q205	TKTA1266Y-	TR	KTA1266Y (TP)	
C583	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP		Q301	TKTA1266Y-	TR	KTA1266Y (TP)	
C584	CEXF1C101V	C ELECTRO	16V RSS 100MF (6.3X11) TP		Q302	TKTC3198Y-	TR	KTC3198Y	
C585	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP		Q303	TKTA1266Y-	TR	KTA1266Y (TP)	
C586	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP		Q403	TKTC3198Y-	TR	KTC3198Y	
C587	CEXF1C101V	C ELECTRO	16V RSS 100MF (6.3X11) TP		Q501	TKTC3198Y-	TR	KTC3198Y	
C588	CEXF1E470V	C ELECTRO	25V RSS 47MF (5X11) TP		Q502	TKTC3198Y-	TR	KTC3198Y	
C603	CEXF1C101V	C ELECTRO	16V RSS 100MF (6.3X11) TP		Q581	TKTC3198Y-	TR	KTC3198Y	
C606	CEXF1C101V	C ELECTRO	16V RSS 100MF (6.3X11) TP		Q582	TKTC3198Y-	TR	KTC3198Y	
C608	CMXM2A333J	C MYLAR	100V 0.033MF J (TP)		Q583	TKTC3198Y-	TR	KTC3198Y	
C609	CMXM2A562J	C MYLAR	100V 5600PF J (TP)		Q601	TKTC3198Y-	TR	KTC3198Y	
C611	CMXM2A682J	C MYLAR	100V 6800PF J (TP)		Q603	TKTC3198Y-	TR	KTC3198Y	
C613	CMXM2A682J	C MYLAR	100V 6800PF J (TP)		Q701	TH2N7000--	FET	H2N7000	
C614	CMXM2A562J	C MYLAR	100V 5600PF J (TP)		Q702	TH2N7000--	FET	H2N7000	
C615	CMXM2A333J	C MYLAR	100V 0.033MF J (TP)		Q704	TKTA1266Y-	TR	KTA1266Y (TP)	
C617	CMXM2A153J	C MYLAR	100V 0.015MF J (TP)		Q801	TKSA1013Y-	TR	KSA1013Y (TP)	
C619	CMXM2A153J	C MYLAR	100V 0.015MF J (TP)		Q802	TKTC3203Y-	TR	KTC3203-Y	
C622	CMXM2A224J	C MYLAR	100V 0.22MF J		Q803	TKTC3198Y-	TR	KTC3198Y	
C623	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP		Q804	TKTC3198Y-	TR	KTC3198Y	
C626	CMXM2A224J	C MYLAR	100V 0.22MF J		R106	RN02B472JS	R METAL FILM	2W 4.7K OHM J SMALL	

ELECTRICAL PARTS LIST

LOC	PART CODE	PART NAME	DESCRIPTION	REMARK	LOC	PART CODE	PART NAME	DESCRIPTION	REMARK
R318	RN02B271JS	R METAL FILM	2W 270 OHM J SMALL		C822	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z	
R403	RN01B272JS	R METAL FILM	1W 2.7K OHM J SMALL		C826	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z	
R405	RN02B102JS	R METAL FILM	2W 1K OHM J SMALL		C830	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z	
R450	RN02B360JS	R METAL FILM	2W 36 OHM J SMALL		C838	CCZF1H103Z	C CERA	50V F 0.01MF Z	
R824	RN02B360JS	R METAL FILM	2W 36 OHM J SMALL		D101	D1N4148---	DIODE	1N4148 (TAPPING)	
R825	RN02B360JS	R METAL FILM	2W 36 OHM J SMALL		D102	DUZ33B----	DIODE ZENER	UZ-33B	
X501	5XEX4R436C	CRYSTAL QUARTZ	HC-49U 4.433619M 20PP TA		D103	D1N4148---	DIODE	1N4148 (TAPPING)	
ZZ200	PTMPJAD405	PCB MAIN AXIAL AS	DTD-29M2MEO		D201	D1N4148---	DIODE	1N4148 (TAPPING)	
A001	4859803696	PCB MAIN	330X246 S1B		D202	D1N4148---	DIODE	1N4148 (TAPPING)	
C103	CCZB1H102K	C CERA	50V B 1000PF K (AXIAL)		D302	D1N4004S--	DIODE	1N4004S	
C107	CCZB1H102K	C CERA	50V B 1000PF K (AXIAL)		D304	D1N4937G--	DIODE	1N4937G (TAPPING)	
C402	CCZB1H102K	C CERA	50V B 1000PF K (AXIAL)		D401	D1N4937G--	DIODE	1N4937G (TAPPING)	
C421	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		D405	D1N4937G--	DIODE	1N4937G (TAPPING)	
C502	CCZF1H103Z	C CERA	50V F 0.01MF Z		D406	DRGP15J---	DIODE	RGP15J	
C509	CCZF1H103Z	C CERA	50V F 0.01MF Z		D407	D1N4937G--	DIODE	1N4937G (TAPPING)	
C511	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z		D408	DRGP15J---	DIODE	RGP15J	
C512	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z		D413	DUZ9R1BM--	DIODE ZENER	UZ-9.1BM	
C513	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z		D501	D1N4148---	DIODE	1N4148 (TAPPING)	
C515	CBZR1C472M	C CERA	16V Y5R 4700PF M (AXIAL)		D502	D1N4148---	DIODE	1N4148 (TAPPING)	
C516	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z		D503	D1N4148---	DIODE	1N4148 (TAPPING)	
C525	CCZF1H103Z	C CERA	50V F 0.01MF Z		D581	DUZ5R6BM--	DIODE ZENER	UZ-5.6BM	
C527	CCZF1H103Z	C CERA	50V F 0.01MF Z		D582	DUZ7R5BM--	DIODE ZENER	UZ-7.5BM	
C532	CCZF1H103Z	C CERA	50V F 0.01MF Z		D583	DUZ7R5BM--	DIODE ZENER	UZ-7.5BM	
C536	CCZF1H223Z	C CERA	50V F 0.022MF Z		D584	DUZ5R1B---	DIODE ZENER	UZ-5.1B	
C537	CCZF1H103Z	C CERA	50V F 0.01MF Z		D585	DUZ7R5BM--	DIODE ZENER	UZ-7.5BM	
C540	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z		D586	DUZ5R1B---	DIODE ZENER	UZ-5.1B	
C546	CCZF1H103Z	C CERA	50V F 0.01MF Z		D587	DUZ7R5BM--	DIODE ZENER	UZ-7.5BM	
C547	CCZF1H103Z	C CERA	50V F 0.01MF Z		D588	DUZ5R1B---	DIODE ZENER	UZ-5.1B	
C549	CCZF1H103Z	C CERA	50V F 0.01MF Z		D589	DUZ5R1B---	DIODE ZENER	UZ-5.1B	
C572	CCZF1H103Z	C CERA	50V F 0.01MF Z		D701	D1N4004S--	DIODE	1N4004S	
C601	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z		D704	D1N4148---	DIODE	1N4148 (TAPPING)	
C602	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z		D705	DUZ2R4B---	DIODE ZENER	UZ-2.4B	
C604	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z		D803	DLT2A05G--	DIODE	LT2A05G (TP)	
C605	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z		D804	D1N4937G--	DIODE	1N4937G (TAPPING)	
C618	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z		D805	D1N4937G--	DIODE	1N4937G (TAPPING)	
C620	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z		D812	D1N4937G--	DIODE	1N4937G (TAPPING)	
C621	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z		D813	D1N4937G--	DIODE	1N4937G (TAPPING)	
C630	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z		D814	D1N4937G--	DIODE	1N4937G (TAPPING)	
C701	CCZB1H102K	C CERA	50V B 1000PF K (AXIAL)		D815	D1N4937G--	DIODE	1N4937G (TAPPING)	
C703	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z		D819	D1N4148---	DIODE	1N4148 (TAPPING)	
C704	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z		D820	DUZ9R1BM--	DIODE ZENER	UZ-9.1BM	
C708	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z		D821	DUZ9R1BM--	DIODE ZENER	UZ-9.1BM	
C710	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z		J001	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
C711	CCZF1H103Z	C CERA	50V F 0.01MF Z		J002	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
C718	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z		J003	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
C720	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z		J004	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
C722	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z		J005	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	

ELECTRICAL PARTS LIST

[illegible]

ELECTRICAL PARTS LIST

LOC	PART CODE	PART NAME	DESCRIPTION	REMARK	LOC	PART CODE	PART NAME	DESCRIPTION	REMARK
J120	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		L504	5CPZ100K02	COIL PEAKING	10UH K (AXIAL 3.5MM)	
J121	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		L505	5CPZ100K02	COIL PEAKING	10UH K (AXIAL 3.5MM)	
J122	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		L506	5CPZ100K02	COIL PEAKING	10UH K (AXIAL 3.5MM)	
J123	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		L510	5CPZ100K02	COIL PEAKING	10UH K (AXIAL 3.5MM)	
J124	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		L571	5CPZ100K02	COIL PEAKING	10UH K (AXIAL 3.5MM)	
J125	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		L701	5CPZ100K02	COIL PEAKING	10UH K (AXIAL 3.5MM)	
J126	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		L702	5CPZ100K02	COIL PEAKING	10UH K (AXIAL 3.5MM)	
J127	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		L703	5CPZ100K02	COIL PEAKING	10UH K (AXIAL 3.5MM)	
J128	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		L704	5CPZ100K02	COIL PEAKING	10UH K (AXIAL 3.5MM)	
J129	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		L705	5CPZ100K02	COIL PEAKING	10UH K (AXIAL 3.5MM)	
J131	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		L706	5CPZ100K02	COIL PEAKING	10UH K (AXIAL 3.5MM)	
J132	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		L707	5CPZ100K02	COIL PEAKING	10UH K (AXIAL 3.5MM)	
J133	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		L708	5CPZ100K02	COIL PEAKING	10UH K (AXIAL 3.5MM)	
J134	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		L801	5MC0000100	COIL BEAD	HC-3550	
J135	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		L811	5MC0000100	COIL BEAD	HC-3550	
J136	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		L813	5MC0000100	COIL BEAD	HC-3550	
J138	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		L814	5CPZ100K02	COIL PEAKING	10UH K (AXIAL 3.5MM)	
J139	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		L821	5CPZ100K02	COIL PEAKING	10UH K (AXIAL 3.5MM)	
J140	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		R101	RD-AZ823J-	R CARBON FILM	1/6 82K OHM J	
J141	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		R102	RD-AZ183J-	R CARBON FILM	1/6 18K OHM J	
J142	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		R103	RD-AZ682J-	R CARBON FILM	1/6 6.8K OHM J	
J143	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		R104	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
J144	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		R105	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
J145	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		R107	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
J146	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		R108	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J	
J147	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		R109	RD-AZ100J-	R CARBON FILM	1/6 10 OHM J	
J148	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		R110	RD-AZ202J-	R CARBON FILM	1/6 2K OHM J	
J151	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		R111	RD-AZ242J-	R CARBON FILM	1/6 2.4K OHM J	
J152	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		R112	RD-AZ751J-	R CARBON FILM	1/6 750 OHM J	
J153	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		R113	RD-AZ562J-	R CARBON FILM	1/6 5.6K OHM J	
J154	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		R114	RD-AZ562J-	R CARBON FILM	1/6 5.6K OHM J	
J155	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		R115	RD-AZ432J-	R CARBON FILM	1/6 4.3K OHM J	
J156	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		R116	RD-AZ202J-	R CARBON FILM	1/6 2K OHM J	
J157	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		R201	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
J158	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		R202	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
J159	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		R203	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
J160	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		R204	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
J161	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		R205	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
J162	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		R206	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
J186	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		R207	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
L102	5CPZ100K02	COIL PEAKING	10UH K (AXIAL 3.5MM)		R208	RD-AZ181J-	R CARBON FILM	1/6 180 OHM J	
L201	5CPZ150K02	COIL PEAKING	15UH K (AXIAL 3.5MM)		R209	RD-AZ241J-	R CARBON FILM	1/6 240 OHM J	
L202	5CPZ829K02	COIL PEAKING	8.2UH K (AXIAL 3.5MM)		R210	RD-AZ221J-	R CARBON FILM	1/6 220 OHM J	
L402	5MC0000100	COIL BEAD	HC-3550		R211	RD-AZ271J-	R CARBON FILM	1/6 270 OHM J	
L501	5CPZ100K02	COIL PEAKING	10UH K (AXIAL 3.5MM)		R301	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
L502	5CPZ100K02	COIL PEAKING	10UH K (AXIAL 3.5MM)		R302	RD-AZ514J-	R CARBON FILM	1/6 510K OHM J	
L503	5CPZ100K02	COIL PEAKING	10UH K (AXIAL 3.5MM)		R303	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	

ELECTRICAL PARTS LIST

LOC	PART CODE	PART NAME	DESCRIPTION	REMARK	LOC	PART CODE	PART NAME	DESCRIPTION	REMARK
R304	RD-AZ683J-	R CARBON FILM	1/6 68K OHM J		R535	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
R305	RD-AZ363J-	R CARBON FILM	1/6 36K OHM J		R581	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J	
R307	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J		R582	RD-AZ474J-	R CARBON FILM	1/6 470K OHM J	
R309	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J		R583	RD-AZ474J-	R CARBON FILM	1/6 470K OHM J	
R310	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J		R584	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J	
R311	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J		R585	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R312	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J		R587	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J	
R313	RD-4Z622J-	R CARBON FILM	1/4 6.2K OHM J		R588	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J	
R314	RD-4Z362J-	R CARBON FILM	1/4 3.6K OHM J		R589	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J	
R315	RD-AZ152J-	R CARBON FILM	1/6 1.5K OHM J		R590	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J	
R316	RD-AZ272J-	R CARBON FILM	1/6 2.7K OHM J		R591	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J	
R320	RD-4Z750J-	R CARBON FILM	1/4 75 OHM J		R592	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J	
R402	RD-4Z331J-	R CARBON FILM	1/4 330 OHM J		R593	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J	
R404	RD-4Z220J-	R CARBON FILM	1/4 22 OHM J		R594	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J	
R413	RD-4Z102J-	R CARBON FILM	1/4 1K OHM J		R595	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R414	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J		R596	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J	
R415	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J		R597	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J	
R416	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J		R598	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
R420	RD-4Z163J-	R CARBON FILM	1/4 16K OHM J		R601	RD-AZ273J-	R CARBON FILM	1/6 27K OHM J	
R501	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J		R602	RD-AZ272J-	R CARBON FILM	1/6 2.7K OHM J	
R502	RD-AZ303J-	R CARBON FILM	1/6 30K OHM J		R603	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
R503	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J		R604	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
R504	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J		R605	RD-AZ273J-	R CARBON FILM	1/6 27K OHM J	
R505	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J		R606	RD-AZ272J-	R CARBON FILM	1/6 2.7K OHM J	
R506	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J		R607	RD-AZ471J-	R CARBON FILM	1/6 470 OHM J	
R507	RD-AZ623J-	R CARBON FILM	1/6 62K OHM J		R608	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R508	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J		R609	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R510	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J		R610	RD-AZ621J-	R CARBON FILM	1/6 620 OHM J	
R511	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J		R611	RD-4Z330J-	R CARBON FILM	1/4 33 OHM J	
R512	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J		R612	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
R513	RD-AZ221J-	R CARBON FILM	1/6 220 OHM J		R613	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
R514	RD-AZ222J-	R CARBON FILM	1/6 2.2K OHM J		R614	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
R515	RD-AZ562J-	R CARBON FILM	1/6 5.6K OHM J		R615	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
R517	RD-AZ104J-	R CARBON FILM	1/6 100K OHM J		R616	RD-AZ152J-	R CARBON FILM	1/6 1.5K OHM J	
R518	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J		R617	RD-AZ271J-	R CARBON FILM	1/6 270 OHM J	
R519	RD-AZ822J-	R CARBON FILM	1/6 8.2K OHM J		R629	RD-AZ393J-	R CARBON FILM	1/6 39K OHM J	
R520	RD-4Z331J-	R CARBON FILM	1/4 330 OHM J		R701	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
R521	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J		R702	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
R522	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J		R703	RD-AZ332J-	R CARBON FILM	1/6 3.3K OHM J	
R523	RD-AZ224J-	R CARBON FILM	1/6 220K OHM J		R704	RD-AZ332J-	R CARBON FILM	1/6 3.3K OHM J	
R524	RD-AZ181J-	R CARBON FILM	1/6 180 OHM J		R705	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
R525	RD-AZ221J-	R CARBON FILM	1/6 220 OHM J		R706	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
R526	RD-AZ303J-	R CARBON FILM	1/6 30K OHM J		R707	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
R527	RD-AZ301J-	R CARBON FILM	1/6 300 OHM J		R708	RD-AZ332J-	R CARBON FILM	1/6 3.3K OHM J	
R529	RD-AZ221J-	R CARBON FILM	1/6 220 OHM J		R710	RD-AZ561J-	R CARBON FILM	1/6 560 OHM J	
R530	RD-AZ181J-	R CARBON FILM	1/6 180 OHM J		R711	RD-AZ561J-	R CARBON FILM	1/6 560 OHM J	
R533	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J		R712	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	

ELECTRICAL PARTS LIST

LOC	PART CODE	PART NAME	DESCRIPTION	REMARK	LOC	PART CODE	PART NAME	DESCRIPTION	REMARK
R713	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J		C908	4SG0D00103	SPARK GAP	S-23 900V-1.5KV	
R714	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J		C909	4SG0D00103	SPARK GAP	S-23 900V-1.5KV	
R715	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J		C910	4SG0D00103	SPARK GAP	S-23 900V-1.5KV	
R716	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J		C911	4SG0D00103	SPARK GAP	S-23 900V-1.5KV	
R717	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J		DF01	DSD50RH51B	LED	SD50-RH51BGRW	
R718	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J		HP01	4859105240	JACK PHONO	LGT1516-0100	
R719	RD-AZ203J-	R CARBON FILM	1/6 20K OHM J		I901	PT12SW5401	HEAT SINK ASS'Y	1TDA6107Q- + 7174301011	
R720	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J		I901	1TDA6107Q-	IC VIDEO	TDA6107Q	
R721	RD-AZ242J-	R CARBON FILM	1/6 2.4K OHM J		I901A	4857025401	HEAT SINK	A1050P-H24 T2	
R722	RD-AZ222J-	R CARBON FILM	1/6 2.2K OHM J		I901B	7174301011	SCREW TAPPTITE	TT2 RND 3X10 MFXN	
R723	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J		ID01	1PNA4603H-	IC PHOTO SENSOR	PNA4603H	
R724	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J		IF01	1SR9HP----	IC PREAMP	SR-9HP	
R725	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J		JP02	4859105450	JACK PIN BOARD	YSC03P-4120-9S	
R726	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J		M112	4851114002	PANEL AV ASSY	2326801+5934302	
R727	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J		M112A	7178301011	SCREW TAPPTITE	TT2 WAS 3X10 MFXN	
R728	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J		M191	4851942400	BUTTON CTRL	4946801+5540901	
R729	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J		ND01	4857417500	TERM PIN	DA-1B0214(D2.3/DY PIN)	
R732	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J		P602A	4850704S18	CONNECTOR	YH025-04+YST025+ULW=500	
R733	RD-AZ332J-	R CARBON FILM	1/6 3.3K OHM J		P603A	4850705S04	CONNECTOR	YH025-05+YST025+ULW=400	
R734	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J		P701A	4850706S01	CONNECTOR	YH025-06+YST025+ULW=200	
R735	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J		P901A	4850705S04	CONNECTOR	YH025-05+YST025+ULW=400	
R737	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J		P902A	4850704S04	CONNECTOR	YH025-04+YST025+ULW=400	
R741	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J		P903	4859238620	CONN WAFER	YPW500-02	
R742	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J		PD01A	4850703S18	CONNECTOR	YH025-03+YST025+ULW=200	
R743	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J		R916	RS01Y209J-	R M-OXIDE FILM	1W 2 OHM J	
R744	RD-AZ332J-	R CARBON FILM	1/6 3.3K OHM J		SCT01	4859303830	SOCKET CRT	ISHG94S	
R746	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J		ZZ202	PTU1JRD405	PCB UNION RADIAL AS	DTD-29M2MEO	
R747	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J		C901	CEXF1E470V	C ELECTRO	25V RSS 47MF (5X11) TP	
R806	RD-4Z821J-	R CARBON FILM	1/4 820 OHM J		C902	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)	
R807	RD-2Z100J-	R CARBON FILM	1/2 10 OHM J		C903	CMXL2E104K	C MYLAR	250V MEU 0.1MF K	
R808	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J		C905	CEXF1E470V	C ELECTRO	25V RSS 47MF (5X11) TP	
R809	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J		CS01	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP	
R810	RC-2Z565KP	R CARBON COMP	1/2 5.6M OHM K		CS02	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP	
R812	RC-2Z824J-	R CARBON COMP	1/2 820K OHM J		Q901	TKTA1266Y-	TR	KTA1266Y (TP)	
R813	RD-4Z563J-	R CARBON FILM	1/4 56K OHM J		Q902	TKTC3198Y-	TR	KTC3198Y	
R814	RD-AZ153J-	R CARBON FILM	1/6 15K OHM J		QF01	TKTC3198Y-	TR	KTC3198Y	
R815	RD-2Z105J-	R CARBON FILM	1/2 1M OHM J		QF02	TKTA1266Y-	TR	KTA1266Y (TP)	
R818	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J		RS01	RN01B151JS	R METAL FILM	1W 150 OHM J SMALL	
R828	RD-4Z332J-	R CARBON FILM	1/4 3.3K OHM J		RS02	RN01B151JS	R METAL FILM	1W 150 OHM J SMALL	
R855	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J		SW701	5S50101Z90	SW TACT	THVV502GDA	
R857	RD-AZ303J-	R CARBON FILM	1/6 30K OHM J		SW702	5S50101Z90	SW TACT	THVV502GDA	
R860	RD-AZ332J-	R CARBON FILM	1/6 3.3K OHM J		SW703	5S50101Z90	SW TACT	THVV502GDA	
R863	RD-4Z363J-	R CARBON FILM	1/4 36K OHM J		SW704	5S50101Z90	SW TACT	THVV502GDA	
ZZ300	PTU1MSD405	PCB UNION-1 MANUAL A	DTD-29M2MEO		SW705	5S50101Z90	SW TACT	THVV502GDA	
C904	CEYF2E479V	C ELECTRO	250V RSS 4.7MF (10*16)		ZZ202	PTU1JAD405	PCB UNION AXIAL AS	DTD-29M2MEO	
C906	CEYF2E100V	C ELECTRO	250V RSS 10MF (10X20)		A001	4859806560	PCB UNION	246X105(246X246/1X2)	
C907	CCYB3D472K	C CERA	2KV B 4700PF K		CD01	CCZF1H103Z	C CERA	50V F 0.01MF Z	

ELECTRICAL PARTS LIST

LOC	PART CODE	PART NAME	DESCRIPTION	REMARK	LOC	PART CODE	PART NAME	DESCRIPTION	REMARK
CF01	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M (AXIAL)		IP01	1SDA9488XE	IC CHIP PIP	SDA9488X	
D901	D1N4148---	DIODE	1N4148 (TAPPING)		ZZ200	PTPMJRD405	PCB PIP RADIAL AS	DTD-29M2MEO	
D903	D1N4148---	DIODE	1N4148 (TAPPING)		CP01	CXCH1H100D	C CERA	50V CH 10PF D (TAPPING)	
D904	D1N4148---	DIODE	1N4148 (TAPPING)		CP02	CXCH1H100D	C CERA	50V CH 10PF D (TAPPING)	
D905	D1N4148---	DIODE	1N4148 (TAPPING)		CP05	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP	
D906	D1N4148---	DIODE	1N4148 (TAPPING)		CP08	CEXF1E470V	C ELECTRO	25V RSS 47MF (5X11) TP	
D907	D1N4148---	DIODE	1N4148 (TAPPING)		CP10	CEXF1E470V	C ELECTRO	25V RSS 47MF (5X11) TP	
D908	D1N4148---	DIODE	1N4148 (TAPPING)		CP11	CMXM2A103J	C MYLAR	100V 0.01MF J (TP)	
D909	D1N4148---	DIODE	1N4148 (TAPPING)		CP12	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP	
D910	DLT2A05G--	DIODE	LT2A05G (TP)		CP14	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP	
D911	D1N4004S--	DIODE	1N4004S		CP16	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP	
D912	D1N4004S--	DIODE	1N4004S		CP18	CEXF1H229V	C ELECTRO	50V RSS 2.2MF (5X11) TP	
D913	D1N4004S--	DIODE	1N4004S		CP20	CEXF1H229V	C ELECTRO	50V RSS 2.2MF (5X11) TP	
DF02	DUZ5R6BM--	DIODE ZENER	UZ-5.6BM		CP21	CMXM2A473J	C MYLAR	100V 0.047MF J (TP)	
JS01	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		CP22	CMXM2A473J	C MYLAR	100V 0.047MF J (TP)	
R901	RD-AZ511J-	R CARBON FILM	1/6 510 OHM J		CP23	CMXM2A473J	C MYLAR	100V 0.047MF J (TP)	
R902	RD-AZ511J-	R CARBON FILM	1/6 510 OHM J		QP01	TKTC3198Y-	TR	KTC3198Y	
R903	RD-AZ511J-	R CARBON FILM	1/6 510 OHM J		QP02	TKSA1013Y-	TR	KSA1013Y (TP)	
R904	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J		QP03	TKSA1013Y-	TR	KSA1013Y (TP)	
R905	RD-AZ153J-	R CARBON FILM	1/6 15K OHM J		QP04	TKSA1013Y-	TR	KSA1013Y (TP)	
R906	RD-4Z244J-	R CARBON FILM	1/4 240K OHM J		ZZ200	PTPMJAD405	PCB PIP AXIAL AS	DTD-29M2MEO	
R907	RD-AZ153J-	R CARBON FILM	1/6 15K OHM J		A001	4859811724	PCB PIP	88X60(246X246/6) SIB	
R908	RD-AZ223J-	R CARBON FILM	1/6 22K OHM J		CP06	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M (AXIAL)	
R909	RD-AZ123J-	R CARBON FILM	1/6 12K OHM J		CP09	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z	
R910	RD-2Z105J-	R CARBON FILM	1/2 1M OHM J		CP13	CCZF1H103Z	C CERA	50V F 0.01MF Z	
R911	RD-2Z102J-	R CARBON FILM	1/2 1K OHM J		CP15	CCZF1H103Z	C CERA	50V F 0.01MF Z	
R912	RD-2Z100J-	R CARBON FILM	1/2 10 OHM J		CP17	CCZF1H103Z	C CERA	50V F 0.01MF Z	
R913	RC-2Z152K-	R CARBON COMP	1/2 1.5K OHM K		CP19	CCZF1H103Z	C CERA	50V F 0.01MF Z	
R914	RC-2Z152K-	R CARBON COMP	1/2 1.5K OHM K		CP24	CCZB1H820K	C CERA	50V B 82PF K (AXIAL)	
R915	RC-2Z152K-	R CARBON COMP	1/2 1.5K OHM K		DP02	D1N4148---	DIODE	1N4148 (TAPPING)	
RD01	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		DP03	D1N4148---	DIODE	1N4148 (TAPPING)	
RF01	RD-AZ201J-	R CARBON FILM	1/6 200 OHM J		DP04	D1N4148---	DIODE	1N4148 (TAPPING)	
RF02	RD-AZ221J-	R CARBON FILM	1/6 220 OHM J		JP01	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
RF03	RD-AZ391J-	R CARBON FILM	1/6 390 OHM J		JP02	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
RF04	RD-AZ751J-	R CARBON FILM	1/6 750 OHM J		JP03	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
RF05	RD-AZ911J-	R CARBON FILM	1/6 910 OHM J		JP04	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
RF07	RD-AZ221J-	R CARBON FILM	1/6 220 OHM J		JP05	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
RF08	RD-AZ223J-	R CARBON FILM	1/6 22K OHM J		JP06	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
RF09	RD-AZ131J-	R CARBON FILM	1/6 130 OHM J		JP07	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
RF10	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J		LP02	5CPZ100K02	COIL PEAKING	10UH K (AXIAL 3.5MM)	
ZZ400	PTPMMSD405	PCB PIP MANUAL AS	DTD-29M2MEO		LP03	5CPZ100K02	COIL PEAKING	10UH K (AXIAL 3.5MM)	
IP02	1LP295033-	IC REGULATOR	LP2950 3.3V		LP04	5CPZ100K02	COIL PEAKING	10UH K (AXIAL 3.5MM)	
PP01	4859279820	CONN WAFER	TAC-L18P-A1 (ANGLE)		LP05	5CPZ100K02	COIL PEAKING	10UH K (AXIAL 3.5MM)	
RP01	RS02Y829JS	R M-OXIDE FILM	2W 8.2 OHM J SMALL		RP03	RD-AZ221J-	R CARBON FILM	1/6 220 OHM J	
RP02	RS02Y829JS	R M-OXIDE FILM	2W 8.2 OHM J SMALL		RP04	RD-AZ221J-	R CARBON FILM	1/6 220 OHM J	
XP01	5XE20R250E	CRYSTAL QUARTZ	HC-49/U 20.2500MHZ 30PPM		RP05	RD-AZ331J-	R CARBON FILM	1/6 330 OHM J	
ZZ200	PTPMJ2D405	PCB PIP CHIP B AS	DTD-29M2MEO		RP06	RD-AZ273J-	R CARBON FILM	1/6 27K OHM J	

ELECTRICAL PARTS LIST

LOC	PART CODE	PART NAME	DESCRIPTION	REMARK
RP07	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
RP08	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
RP09	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
RP10	RD-AZ151J-	R CARBON FILM	1/6 150 OHM J	
RP11	RD-AZ151J-	R CARBON FILM	1/6 150 OHM J	
RP12	RD-AZ151J-	R CARBON FILM	1/6 150 OHM J	
RP13	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
RP14	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
RP15	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	

CM-905 EACH MODEL PARTS LIST

CM-905 Each Model Difference Part List

NO	LOC	PART NAME	29M2ME	29M2MP	29M2MT	29M2MZ	29M1ME	29G1ME	25G1ME	25G4ME
1	J034	WIRE COPPER	85801065GY	▶	▶	▶	▶	▶	NONE	▶
2	J033	WIRE COPPER	85801065GY	▶	▶	▶	▶	▶	NONE	▶
3	D404	DIODE	NONE	NONE	NONE	NONE	NONE	NONE	DRGP15J- RGP15J	▶
4	C410	C ELECTRO	NONE	NONE	NONE	NONE	NONE	NONE	CEYF2E330V 250V RSS 33MF	▶
5	C404	C MYLAR	CMYH3C912J 1.6KV BUP 9100PF J	▶	▶	▶	▶	▶	CMYH3C752J 1.6KV BUP 6600PF J	▶
6	C405	C MYLAR	CMYH3C822J 1.6KV BUP 8200PF J	▶	▶	▶	▶	▶	▶	▶
7	C408	C MYLAR	CMYB2G624K 400V EU 0.62MF K	▶	▶	▶	▶	▶	CMYE2G394J 400V PU 0.39MF J	▶
8	R409	R FUSIBLE	RF01Z229J- 1W 2.2 OHM J	▶	▶	▶	▶	▶	RF01Z159J- 1W 1.3 OHM J	▶
9	L401	COIL H-LINEARITY	58H0000039 TRL-200D	▶	▶	▶	▶	▶	58H0000025 TRL-330	▶
10	R420	R CARBON FILM	RD-4Z153J- 1/4W 15K OHM J	▶	▶	▶	▶	▶	RD-4Z183J- 1/4W 18K OHM J	▶
11	R747 PIP option	R CARBON FILM	RD-4Z472J- 1/6 4.7K OHM J	▶	NONE	NONE	RD-4Z472J- 1/6 4.7K OHM J	▶	▶	▶
12	R748 PIP option	R CARBON FILM	NONE	NONE	RD-4Z472J- 1/6 4.7K OHM J	▶	NONE	NONE	NONE	NONE
13	P904 PIP option	CONN WAFER	4859281320 TAC-L18X-A1	▶	NONE	NONE	4859281320 TAC-L18X-A1	▶	▶	▶
14	J016 PIP option	WIRE COPPER	NONE	NONE	85801065GY	85801065GY	NONE	NONE	NONE	NONE
15	MODULE PIP	PCB PIP AS	PTMPMSD405	▶	NONE	NONE	PTMPMSD405	▶	▶	▶
16	MODULE D-EYE	PCB UNION EYE	WITH	▶	▶	▶	WITH-OUT	▶	▶	▶
16-1	ID01	IC PHOTO SENSOR	IPNA4603H- PNA4603H	▶	▶	▶	NONE	NONE	NONE	NONE

CM-905 EACH MODEL PARTS LIST

NO	LOC	PART NAME	29M2ME	29M2MP	29M2MT	29M2MZ	29M1ME	29G1ME	25G1ME	25G4ME
16-2	ND01	TERM PIN	4857417500 DA-JB0214	▲	▲	▲	NONE	NONE	NONE	NONE
16-3	PDA01	CONNECTOR	4850703S18 YH025-03	▲	▲	▲	NONE	NONE	NONE	NONE
16-4	CD01	C CERA	CCZFIH103Z 50V F 0.01MF Z	▲	▲	▲	NONE	NONE	NONE	NONE
16-5	RD01	WIRE COPPER	85801065GY	▲	▲	▲	NONE	NONE	NONE	NONE
16-6	PD01	CONN WAFER	485923162S YW025-03	▲	▲	▲	NONE	NONE	NONE	NONE
16-7	L705	COIL PEAKING	5CPZ100K02 10UH K	▲	▲	▲	NONE	NONE	NONE	NONE
16-8	R712	R CARBON FILM	RD-AZ101J- 1/6 100 OHM J	▲	▲	▲	NONE	NONE	NONE	NONE
16-9	J147	WIRE COPPER	85801065GY	▲	▲	▲	NONE	NONE	NONE	NONE
16-10	C709	C ELECTRO	CEXFIE470V 25V RSS 47MF	▲	▲	▲	NONE	NONE	NONE	NONE
16-11	C706	C ELECTRO	CEXFIC101V 16V RSS 100MF	▲	▲	▲	NONE	NONE	NONE	NONE
16-12	C710	C CERA SEMI	CBZFIH104Z 50V F 0.1MF Z	▲	▲	▲	NONE	NONE	NONE	NONE
16-13	R719	R CARBON FILM	RD-AZ203J- 1/6 20K OHM J	▲	▲	▲	NONE	NONE	NONE	NONE
16-14	R720	R CARBON FILM	RD-AZ473J- 1/6 47K OHM J	▲	▲	▲	NONE	NONE	NONE	NONE
17	MODULE CONTROL		PCB CONTROL	▲	▲	▲	NONE	NONE	NONE	PCB CONTROL
18	J137	WIRE COPPER	NONE	NONE	85801065GY	85801066GY	NONE	NONE	NONE	NONE
19	R813	R CARBON FILM	RD-4Z563J- 1/4W 56K OHM J	▲	▲	▲	▲	▲	RD-4Z203J- 1/4W 20K OHM J	▲
20	R814	R CARBON FILM	RD-4Z153J- 1/4W 15K OHM J	▲	▲	▲	▲	▲	RD-4Z513J- 1/4W 51K OHM J	▲
21	MODULE JACK A/V2	PCB UNION	PCB JACK	▲	▲	▲	▲	NONE	NONE	NONE
21-1	JP02	JACK PIN BOARD	4859105450 YSC03P-4210-9S	▲	▲	▲	▲	485910845 YSC03P-4120	485910845 YSC03P-4120	485910845 YSC03P-4120
21-2	HP01	JACK PHONO	4859105240 LGT1516-0100	▲	▲	▲	▲	NONE	NONE	NONE

NO	LOC	PART NAME	29M2ME	29M2MP	29M2MT	29M2MZ	29M1ME	29G1ME	25G1ME	25G4ME
21-3	P602A	CONNECTOR	4850704S18 YH025-04	▲	▲	▲	▲	NONE	NONE	NONE
21-4	P603A	CONNECTOR	4850705S04 YH025-05	▲	▲	▲	▲	NONE	NONE	NONE
21-5	SC01	C ELECTRO	CEXF1H109V 50V RSS IMF	▲	▲	▲	▲	NONE	NONE	NONE
21-6	SC02	C ELECTRO	CEXF1H109V 50V RSS IMF	▲	▲	▲	▲	NONE	NONE	NONE
21-7	RS01	R METAL FILM	RN01B151JS 1W 150 OHM J S	▲	▲	▲	▲	NONE	NONE	NONE
21-8	RS02	R METAL FILM	RN01B151JS 1W 150 OHM J S	▲	▲	▲	▲	NONE	NONE	NONE
21-9	JS01	WIRE COPPER	85801065GY	▲	▲	▲	▲	NONE	NONE	NONE
22	J149	WIRE COPPER	NONE	NONE	NONE	NONE	NONE	85801065GY	▲	▲
23	J150	WIRE COPPER	NONE	NONE	NONE	NONE	NONE	85801065GY	▲	▲
24	V901	CRT	4859633763 A68KTB359X	▲	▲	▲	▲	▲	4859629060 A59KPR84X01	▲
25	C901	C ELECTRO	CEXF1E470V 25V RSS 47MF	▲	▲	▲	▲	▲	CEXF1C221V 16V RSS 220MF	▲
26	R916	R M-OXIDE FILM	RS01Y209J- 1W 2 0HM J	▲	▲	▲	▲	▲	85801065GY WIRE COPPER	▲

DAEWOO

DAEWOO ELECTRONICS CO., LTD

686, AHYEON-DONG MAPO-GU

SEOUL, KOREA

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TELEX : DWELEC K28177-8

CABLE : "DAEWOOELEC"

E-mail : djkoo@web.dwe.co.kr

APPENDIX

IC DESCRIPTION

SDA-55XX (Micro-controller & Teletext Decoder)

Feature

General

- Feature selection via special function register
- Simultaneous reception of TTX, VPS, PDC, and WSS (line 23)
- Supply Voltage 2.5 and 3.3V
- ROM version package P-SDIP 52, P-MQFP64
- Romless version package P-MQFP100, P-LCC84

External Crystal and Programmable clock speed

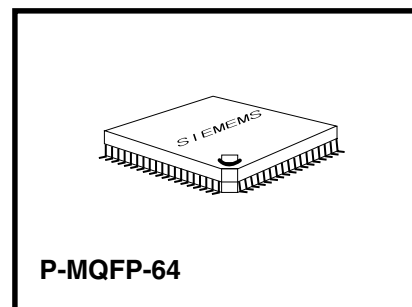
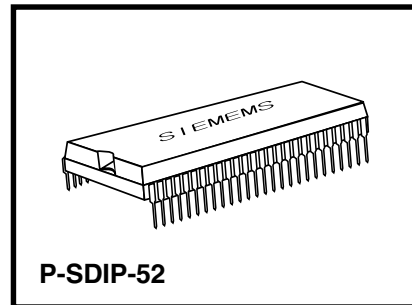
- Single external 6MHz crystal, all necessary clocks are generated internally
- CPU clock speed selectable via special function registers.
- Normal Mode 33.33 Mhz CPU clock, Power Save mode 8.33 Mhz

Microcontroller Features

- 8bit 8051 instruction set compatible CPU.
- 33.33-MHz internal clock (max.)
- 0.360 μ s(min.) instruction cycle
- Two 16-bit timers
- Watchdog timer
- Capture compare timer for infrared remote control decoding
- Pulse width modulation unit (2 channels 14 bit, 6 channels 8 bit)
- ADC (4 channels, 8 bit)
- UART

Memory

- Non-multiplexed 8-bit data and 16 ... 20-bit address bus (ROMless Version)
- Memory banking up to 1Mbyte (Romless version)
- Up to 128 Kilobyte on Chip Program ROM
- Eight 16-bit data pointer registers (DPTR)
- 256-bytes on-chip Processor Internal RAM (IRAM)
- 128 bytes extended stack memory.
- Display RAM and TXT/VPS/PDC/WSS-Acquisition-Buffer directly accessible via MOVX
- UP to 16KByte on Chip Extended RAM(XRAM) consisting of ;
 - 1 Kilobyte on-chip ACQ-buffer-RAM (access via MOVX)
 - 1 Kilobyte on-chip extended-RAM (XRAM, access via MOVX) for user software
 - 3 Kilobyte Display Memory



Acquisition Features

- Multistandard Digital Data Slicer
- Parallel Multi-norm Slicing (TTX, VPS, WSS, CC, G+)
- Four Different Framing Codes Available
- Data Caption only Limited by available Memory
- Programmable VBI-buffer
- Full Channel Data Slicing Supported
- Fully Digital Signal Processing
- Noise Measurement and Controlled Noise Compensation
- Attenuation Measurement and Compensation
- Group Delay Measurement and Compensation
- Exact Decoding of Echo Disturbed Signals

Ports

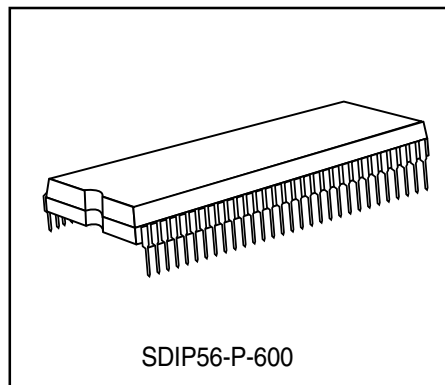
- One 8-bit I/O-port with open drain output and optional I²C Bus emulation suport (Port0)
- Two 8-bit multifunction I/O-ports (Port1, Port3)
- One 4-bit port working as digital or analog inputs for thd ADC (Port2)
- One 2-bit I/O-port with secondary functions (P4.2, 4.3, 4.7)
- One 4-bit I/O-port with secondary function (P4.0, 4.1, 4.4) (Not available in P-SDIP 52)

TB1251CN

PAL/NTSC/SECAM 1CHIP (IF + VCD PROCESSOR) IC

The TB1251N is a TV signal processor IC, which contains PIF, SIF, Video, Chroma and deflection signal processors for worldwide Multi-color systems. Also, it has V and EW geometric correction Outputs.

The line-up and flexibility of this TB1251 series contributes to reduce development costs and components in a TV sets.



Weight : 5.55g (typ)

FEATURES

IF STAGE

- Multi-system IF
- SIF 4.5 ~ 6.5 MHz
- One External BPF for Multi-SIF carrier
- Inter/Sprit carrier inputs
- V C O tank coil alignment free
- for L system,
 - Positive demodulation
 - V low Ch
 - AM Sound demodulation(Sprit carrier)

VIDEO STAGE

- Built-in Y delay line (8 adjustable steps)
- Built in C trap filter (Swithable)
- VSM output

CHROMA STAGE

- Multi-color Demodulation
- Automatic Chroma Identification
- 1 Xtal for Multi-color Systems
(3.58MHz/4.43MHz/M-PAL/N-PAL)
- Built-in 1H Delay line
- Cb/Cr input
- Built-in BPF/TOF
- Fsc Output
- Two NTSC demodulation phase

TEXT STAGE

- Built-in AKB
 - AKB on/off
 - AKB Color temperature control
- Analog RGB interface
- ABL / ACL

DEFLECTION STAGE

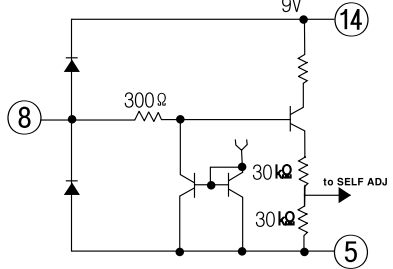
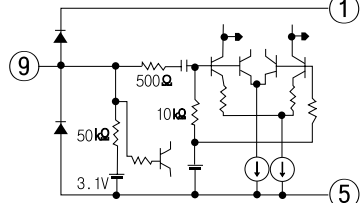
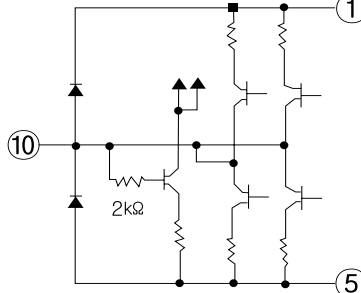
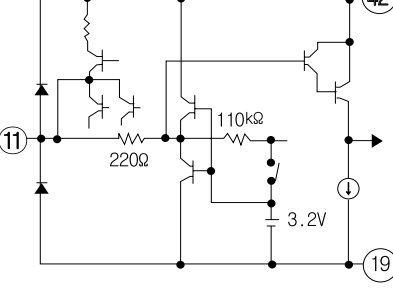
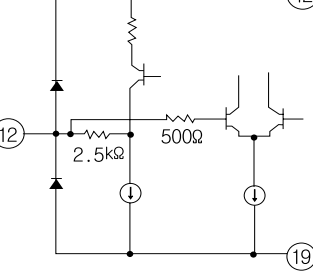
- Built-in H-VCO
- V/EW geometric corrections
- Stand Alone Sync input
- Sand Castle Pulse Output
(HD+VD+Gate Pulse)

TERMINAL INTERFACE

	PIN NAME	FUNCTION	INTERFACE
1	IF VCC	A Vcc terminal for the IF circuit. Supply 5V.	-
2	RIPPLE FILTER	A terminal should be connected to an internal bias filler. Put a capacitor.	
3	SIF OUT	An output terminal for a 2'nd SIF signal, that is mixed down by a regenerated carrier. The SIF frequencies are able to convert into only 6.5MHz, in order to eliminate SIF BPFs to single 6.5MHz.	
4	AUDIO OUT	An output terminal for audio signal. FM Det.signal, inputted to pin53, is output. An internal audio attenuator controls the output levels.	
5	IF GND	The GND terminal for IF circuit.	-
6 7	IF IN IF IN	Input terminals for IF signals. Pin 6 and 7 are the both input poles of a differential amplifier. The normal input level is 90dB(μV) (Pin6-7), input impedance is 1.5 k ohms.	

APPENDIX

IC DESCRIPTION

	PIN NAME	FUNCTION	INTERFACE
8	RF AGC	An output terminal for RF AGC. A pull up resistor is required because of its open collector output. A de-coupling capacitor is also connected to reduce noise.	
9	1'st SIF IN	An input terminal for 1'st SIF signal.	
10	IF AGC	A terminal should be connected to an IF AGC filter. Connect 2.2uF capacitor to Vcc.	
11	APC FILTER	A terminal should be connected with an APC filter for chroma demodulation. This terminal voltage controls the frequency of VCXO.	
12	X'TAL (4.43MHZ)	A terminal should be connected with a 4.433619MHz X'tal oscillator. The oscillated signal leads to the chroma demodulation, H out frequency tuning, AFT, etc.	

	PIN NAME	FUNCTION	INTERFACE
13	CW OUT	An output terminal for the continuous chroma sub-carrier frequency wave, with an amplitude of 0.7Vp-p (typ). Also the dc level shows chroma killer status, with a level of 3.5V for B/W and 1.5V for Color.	
14	RGB VCC(9V)	A Vcc terminal for RGB block, PIF det. Output and sound output circuit. Supply 9V.	-
15	YS/YM SW /Spot killer	A terminal for switching of EXT RGB Mode and fast Half tone.	
16 17 18	EXT.R IN EXT.G IN EXT.B IN	Input terminals for EXT RGB signals. The signals are clamped by capacitors, therefore the input impedance should be low, 100 ohms or less is recommended. For this input, the brightness and RGB contrast is adjustable, the ABL/ACL limits the output level. This ABL/ACL may be turned On and OFF. OFF : for small area like OSD ON : for large area like TELETEXT (input level 0.7Vp-p/100IRE)	
19	Y/C GND	The GND terminal for Y/C circuit.	-
20 21 22	R OUT G OUT B OUT	Terminals for R/G/B signal output. Connect resistances to GND, for the current source if the slew rate is not enough. Due to the source current limitation, the resistances should be 2.0kΩ or more.	

APPENDIX

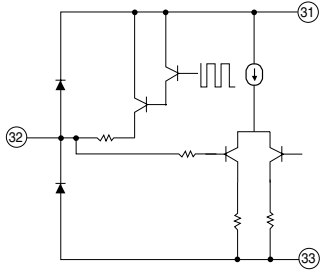
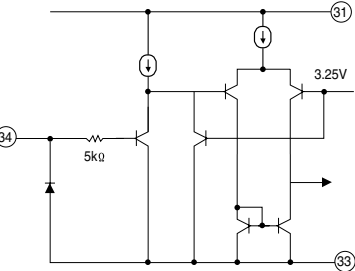
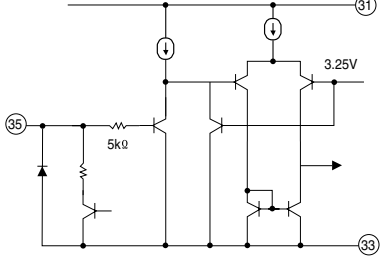
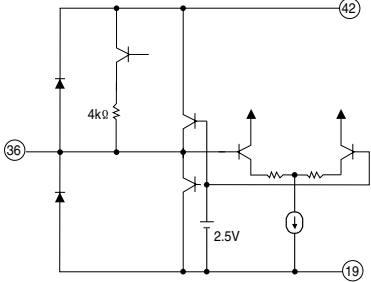
IC DESCRIPTION

	PIN NAME	FUNCTION	INTERFACE
23	IK IN	An input terminal to sense AKB cathode current. Connect this terminals to GND if the AKB system is not being used.	
24	V RAMP	A terminal should be connected with a capacitor to generate the V.Ramp signal. The V.Ramp amplitude is kept constant by the V.AGC.	
25	V NFB	An input terminal for the V saw-tooth signal feedback. If the DC voltage on this pin is less than 1.7V, it blanks RGB output for V guard.	
26	V OUT	An output terminal for the vertical driving pulses.	

	PIN NAME	FUNCTION	INTERFACE
27	REF. R	A terminal should be connected with resistance to stabilize internal current sources. Connect $5.6k\Omega \pm 1\%$ resistance to GND.	
28	ABCL IN	An input terminal for ABL/ACL control. Control voltage range is 5.5~6.0V. The ratio of ABL versus ACL can be set by bus control.	
29	H ARC FILTER	A terminal should be connected with H.AFC Filter to GND. The DC voltage of this pin controls the H VCO frequency.	
30	FBP IN/ SCP OUT	An input terminal for FBP. The V and GP Pulses are overlaid as SCP.	
31	H VCC (9V)	A Vcc terminal for DEF circuit, HOUT, IICBUS POR, etc. Supply 9V.	-

APPENDIX

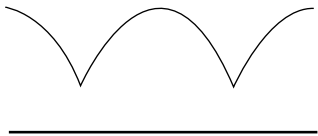
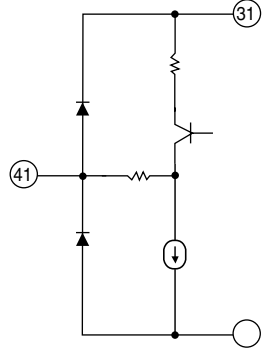
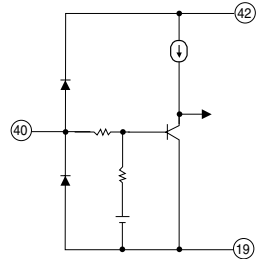
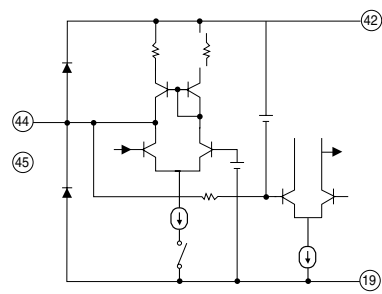
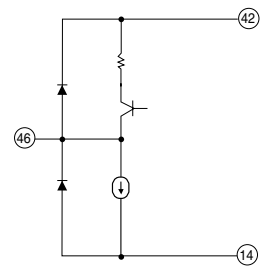
IC DESCRIPTION

	PIN NAME	FUNCTION	INTERFACE
32	H OUT	An output terminal for horizontal driving pulses.	
33	DIG GND	A GND terminal for digital block.	-
34	SCL	An input terminal for IICBUS clock.	
35	SDA	An input/output terminal for IICBUS data.	
36	BLACK DET	A terminal should be connected with Black det. filler for black stretch. This terminal voltage controls the Black stretching gain. The IIC Bus controls the on/off and start point of the Black stretch.	

	PIN NAME	FUNCTION	INTERFACE
37	DIG.VDD	A Vdd terminal for of digital block. Supply HVcc voltage through 270 ohms of resistance. The voltage of this terminal is clipped to approximately 3.3V by the internal regulator.	
38	SYNC IN	An input terminal for Sync signal. The input sync tip is clamped by charging/discharging the coupling capacitors so as to align the Sync slice level. Input is through a low impedance buffer, (input level 1Vp-p/140IRE)	
39	Y IN	An input terminal for Y signal. The pedestal level is clamped by means of charging/discharging the coupling capacitor, therefore input through low impedance buffer. (1Vp-p/140IRE input level)	
40	DC RESTOR	A terminal to be connected with a capacitor to detect the average picture level for DC restoration. The ratio of the DC restoration is set by bus. Leave this terminal open if the DC restoration is not required.	

APPENDIX

IC DESCRIPTION

	PIN NAME	FUNCTION	INTERFACE
41	EW OUT	An output terminal for E-W out. 	
42	Y/C VCC	An Vcc terminal for Y/C circuit. Supply 5V.	
43	C-IN	An input terminal for chroma signal. (standard burst amplitude level 286mVp-p) The low/High impedance status of this pin can be read by bus to detect if S port is conncted or not.	
44 45	Cr IN Cb IN	Input terminals for Cb/Cr signals. This terminal is clamped by charging/ discharging the coupling capacitors It is recommended that input impedance is kept at or below 100Ω. B.B.TINT (-/+ 12deg) / Sub color control are available for Cb/Cr input signals.	
46	VSM OUT	The output terminal for veracity scanning modulation (VSM). The IIC Bus controls phase and Gain of VSM.	

	PIN NAME	FUNCTION	INTERFACE
47	LOOP FILTER	A terminal to be connected with loop filter for PIF PLL. The terminal voltage controls the PIF VCO frequency.	
48	EHT IN	The input terminal for EHT. The ratio of EW/V is controlled by bus.	
49	De-Emphasis /Mon-OUT	A terminal to De-Emphasis Audio signal, and pick up detected Audio signal. Connect capacitor (0.01μF to GND). The time constant 50/75us is set by the IICBUS control "SIF Freq". Remove the capacitor in case of us US/JPN sound multiplex system.	
50 51	PIF TANK	Terminals to connect a PIF tank coil. The tank coil should be pre-set within +/- 2% for the automatic tuning. Manual tuning is also available. The resonance capacitance of the tank should be 18pF.	

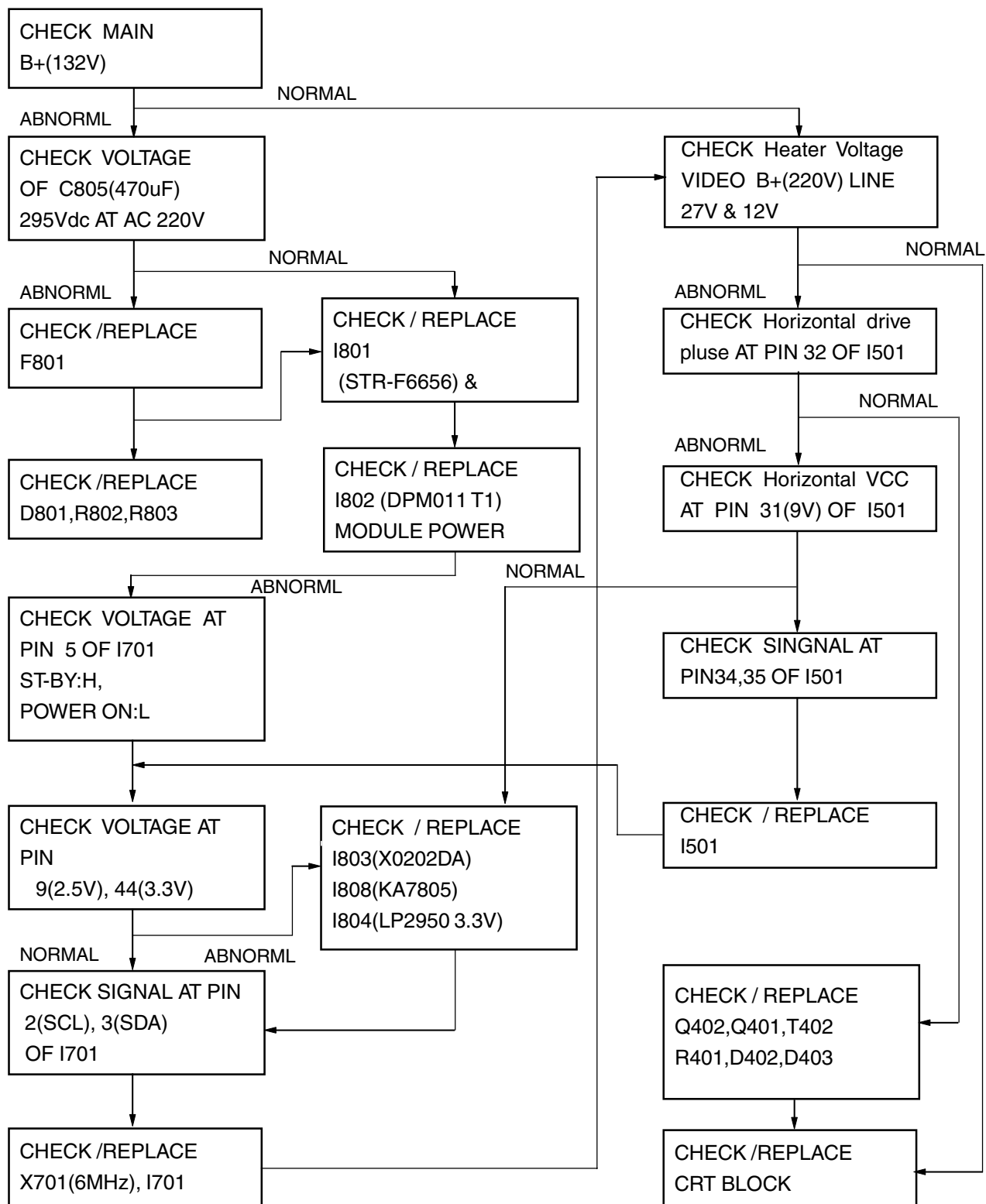
APPENDIX

IC DESCRIPTION

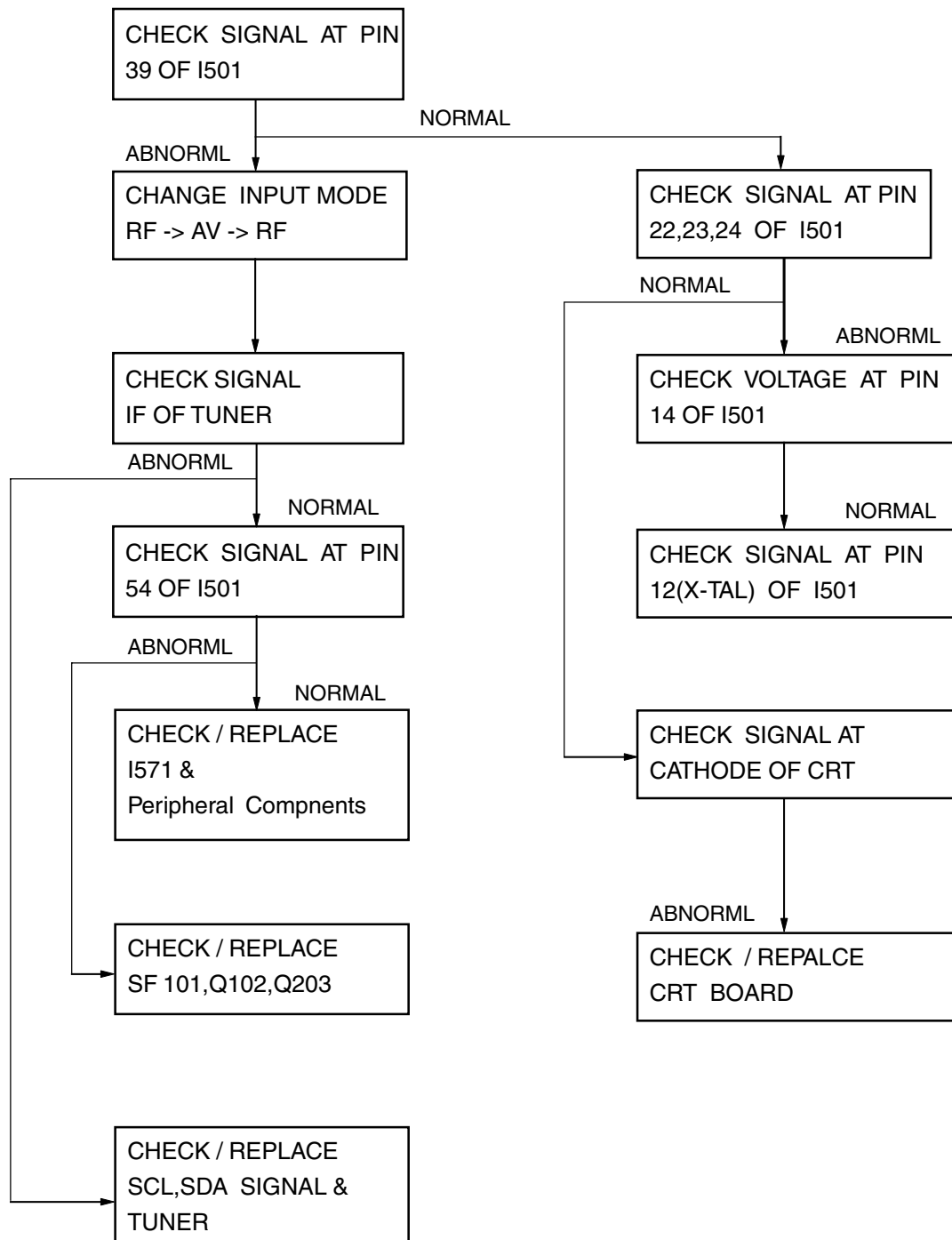
	PIN NAME	FUNCTION	INTERFACE
52	DC NF	A terminal for connect the capacitor for DC NF.	
53	VCO Bias Filter	A terminal to be connected with a filter for PIF VCO.	
54	IF DET OUT	Detected PIF output terminal. (typical output level 2.2Vp-p)	
55	AFT OUT	An output terminal for AFT. output dc range : 0~2.5~5V output impedance : 50 k ohms(typ.)	
56	SIF in / H corr	An input terminal for 2'nd SIF signal and H.curve correction.	

TROUBLE SHOOTING CHARTS

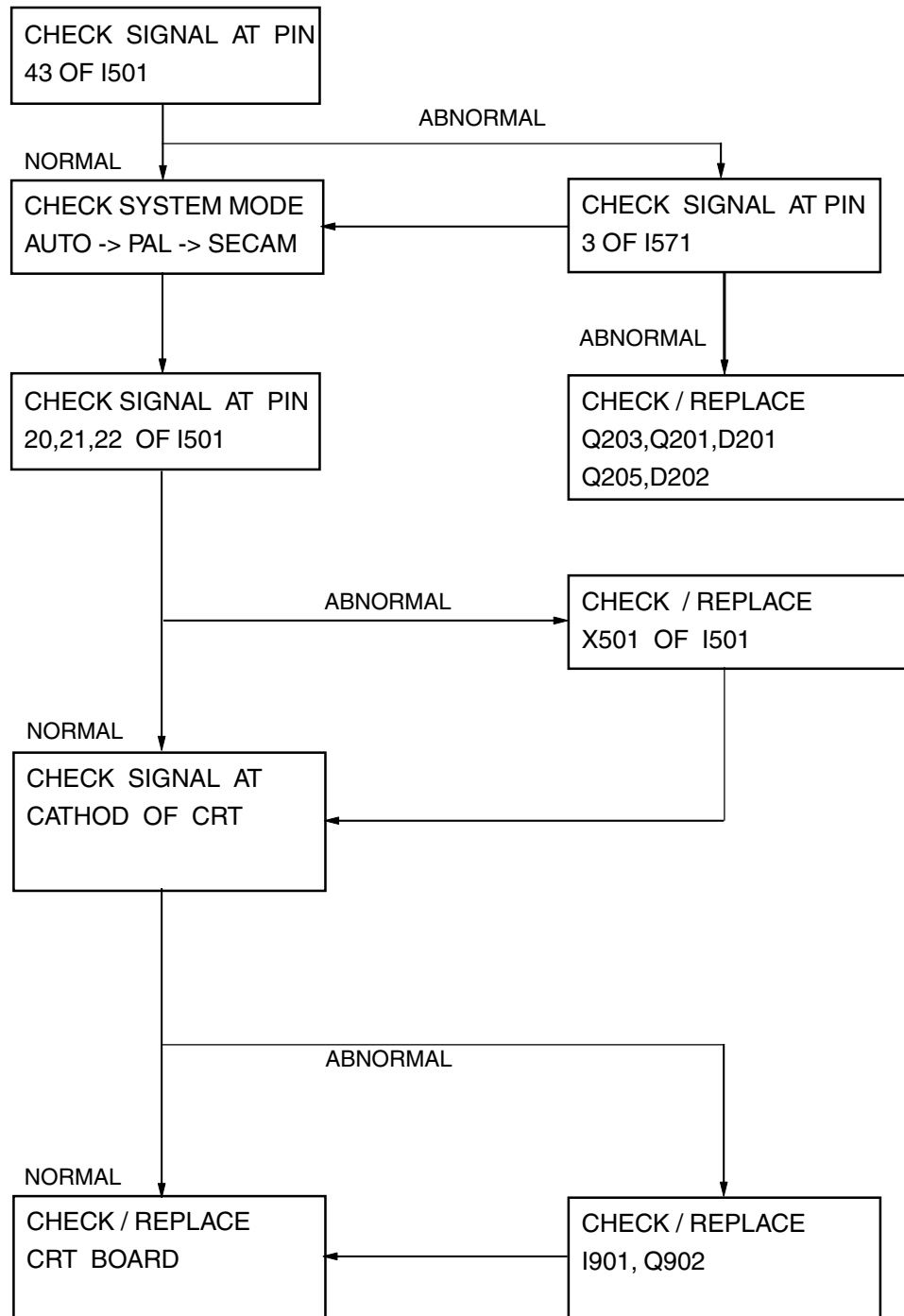
1. NO RASTER



2. NO OICTHRE (RASTER OK)

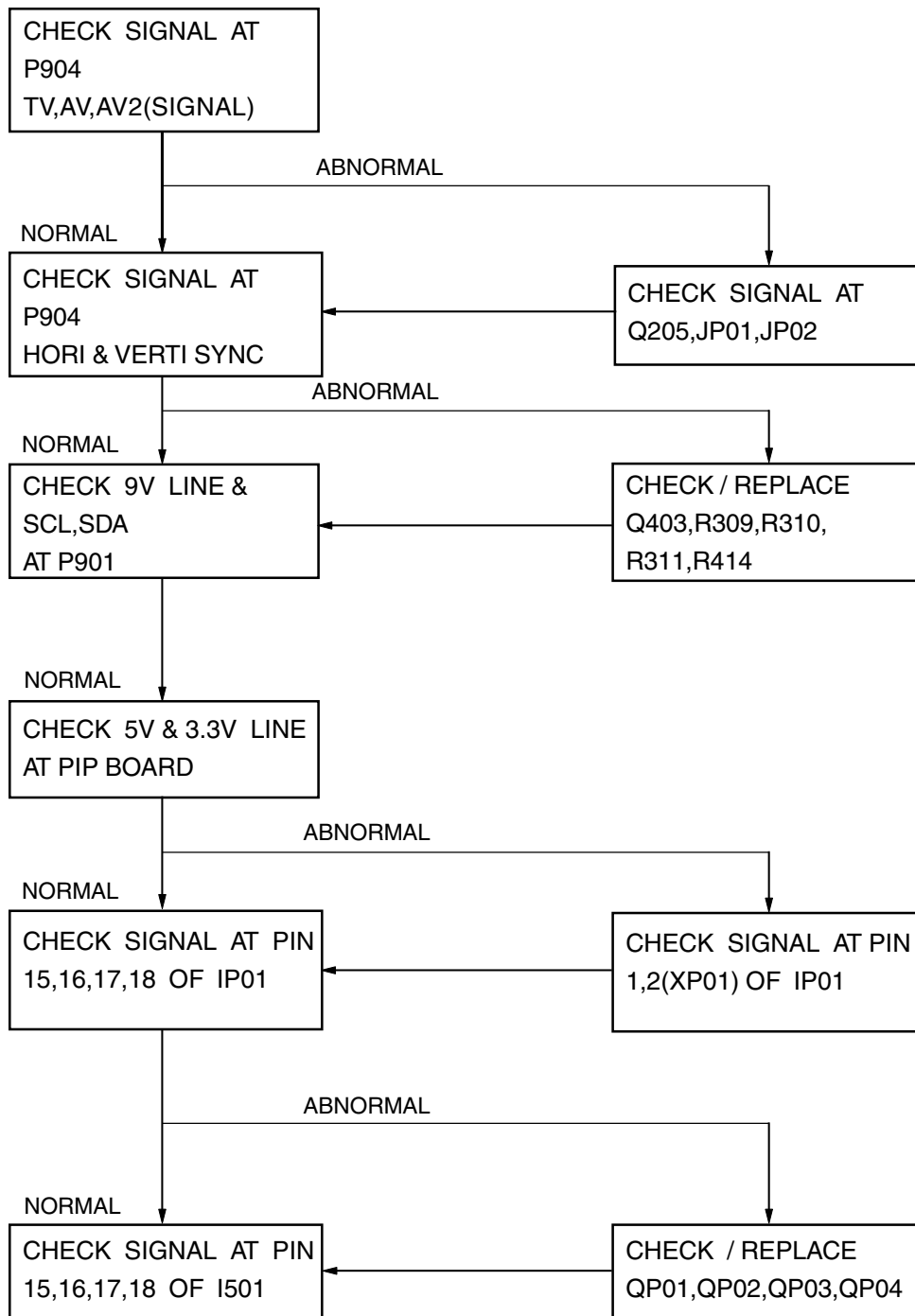


3. NO COLOR

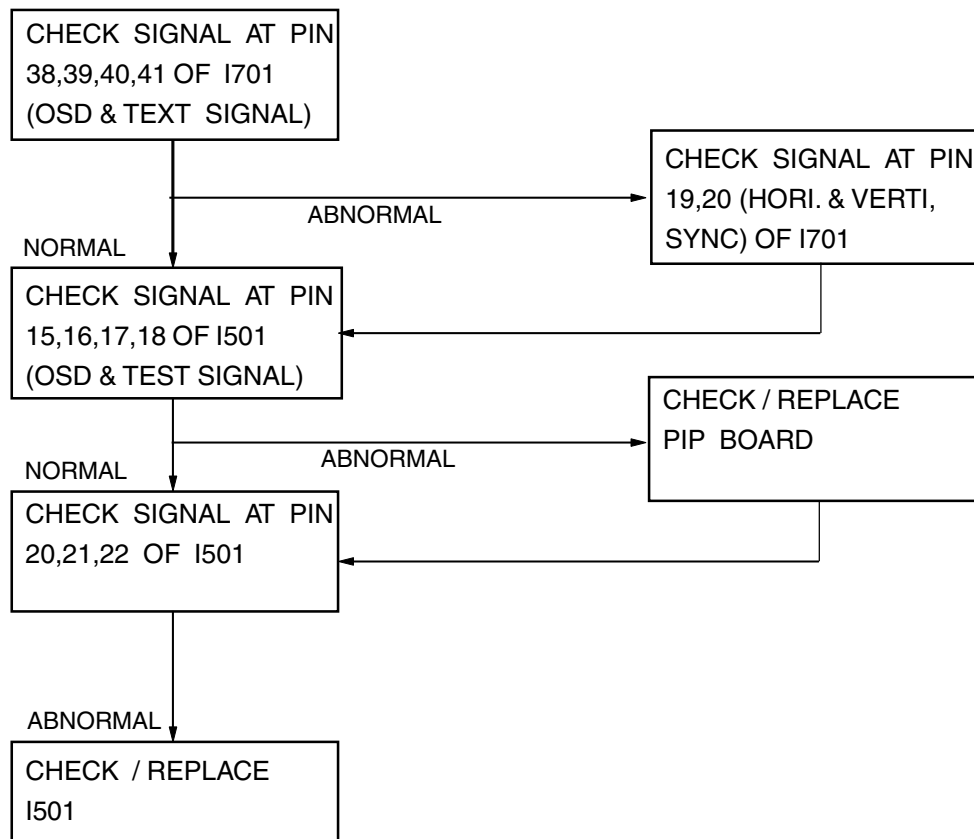


4. NO PIP PICTURE & NO ON-SCREEN DISPLAY(PICTURE OK)

4-1. NO PIP PICTURE (MAIN PICTURE OK)



4-2. NO ON-SCREEN DISPLAY (PICTURE OK)



5. NO MAIN SOUND (PICTURE OK)

