

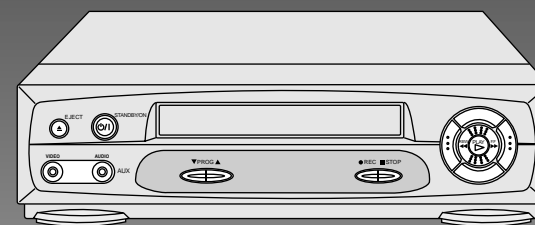
VIDEO CASSETTE RECORDER

Chassis : Scorpio
SV-445X/441X/245X/241X
SV-445G/441G/245G/241G

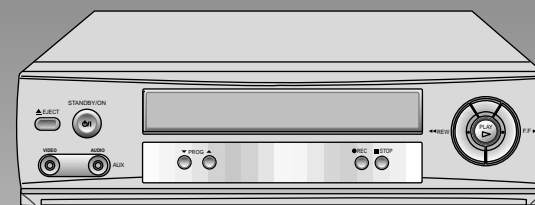
SERVICE Manual

For mechanical disassembly and adjustment, refer to the "Mechanical Manual" (TS-10 → AC68-01405A).

VIDEO CASSETTE RECORDER



SV-445X/245X/445G/245G



SV-441X/241X/441G/241G

CONTENTS

1. Precautions
2. Alignment and Adjustment
3. Exploded View and Parts List
4. Electrical Parts List
5. Schematic Diagrams

4. Electrical Parts List

Loc.No	Part No	Description ; Specification	Remark	Loc.No	Part No	Description ; Specification	Remark
-	-	ASSY PCB-MAIN-FULL	S.N.A.	VA1SS1	1405-001026	VARISTOR:470V,600A,9x7mm,TP	△
S.M.P.S. PARTS				ZD1SS1	0403-000571	DIODE-ZENER:UZP43B,43V,40-46V,1W,DO-41,T	
BD1SD1	AC27-92001M	INDUCTOR:70UH-M RT BFS3565R2F,-,-,-,-		POWER DRIVE PARTS			
BD1SR1	3301-000297	CORE-FERRITE BEAD:AA,3.6x1.2x5.7mm,1400,		C1P102	2401-001545	C-AL:47uF,20%,25V,GP,TP,6.3x7mm,2.5	
BD1SS2	AC27-92001M	INDUCTOR:70UH-M RT BFS3565R2F,-,-,-,-		C1P103	2401-000598	C-AL:1uF,20%,50V,GP,TP,4x7.5	
BD1SS3	3301-000297	CORE-FERRITE BEAD:AA,3.6x1.2x5.7mm,1400,		C1P104	2401-002299	C-AL:4.7uF,20%,50V,GP,TP,5x7.5	
C1SD03	2201-000812	C-CERAMIC,DISC:2.2nF,20%,400V,Y5U,BK,12.		C1P105	2401-003107	C-AL:47uF,20%,16V,GP,TP,5x7.5	
C1SD04	2201-000812	C-CERAMIC,DISC:2.2nF,20%,400V,Y5U,BK,12.		C1P106	2401-003107	C-AL:47uF,20%,16V,GP,TP,5x7.5	
C1SD11	2401-003302	C-AL:47uF,20%,400V,GP,TP,18X31.5,7.		D1P101	0401-000101	DIODE-SWITCHING:1N4148,100V,200mA,DO-35,	
C1SD12	2305-001029	C-FILM,MPEF:10nF,10%,630V,TP,12x9x12.5,5		Q1P101	0501-000616	TR-SMALL SIGNAL:KSC2328A-Y,NPN,1W,TO-92L	
C1SD13	2301-000361	C-FILM,PEF:1.2nF,10%,50V,TP,-,5mm		Q1P102	0501-000616	TR-SMALL SIGNAL:KSC2328A-Y,NPN,1W,TO-92L	
C1SR12	2401-000905	C-AL:22uF,20%,16V/BP,-,6x11,2.5mm		Q1P104	0501-000610	TR-SMALL SIGNAL:KSA928A-Y,PNP,1W,TO-92L	
C1SR14	2301-000445	C-FILM,PEF:4.7nF,5%,50V,TP,5.7x7x3mm,5mm		Q1P105	0504-000116	TR-DIGITAL:KSR1001,NPN,300MW,4.7K/4.7K,T	
C1SS01	2305-001021	C-FILM,MPEF:100nF,20%,275V,TP,17.5x7x13.	△	R1P101	2001-000855	R-CARBON:560OHM,5%,1/4W,AA,TP,2.4X6.4MM	
C1SS02	2305-001021	C-FILM,MPEF:100nF,20%,275V,TP,17.5x7x13.	△	R1P106	2001-000449	R-CARBON:2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
C1SS03	2301-000361	C-FILM,PEF:1.2nF,10%,50V,TP,-,5mm		R1P107	2001-000273	R-CARBON:100KOHM,5%,1/8W,AA,TP,1.8X3.2M	
C1SS31	2401-000385	C-AL:10uF,20%,100V,GP,TP,6.3x11.5		R1P108	2001-000611	R-CARBON:3.9KOHM,5%,1/4W,AA,TP,2.4X6.4M	
C1SS32	2401-003137	C-AL:330UF,20%,50V,WT,TP,10X16MM,5		R1P115	2001-000062	R-CARBON:470OHM,5%,1/4W,AA,TP,2.4X6.4MM	
C1SS33	2401-003477	C-AL:330UF,20%,25V,LZ,TP,10X12.5MM,		ZD1P02	0403-000717	DIODE-ZENER:MTZJ5.1B,5.1V,4.94-5.2V,500m	
C1SS34	2401-003477	C-AL:330UF,20%,25V,LZ,TP,10X12.5MM,		SYSTEM CONTROL/SERVO PARTS			
C1SS35	2401-003480	C-AL:1000UF,20%,10V,LZ,TP,10X16MM,5		BD601	3301-000297	CORE-FERRITE BEAD:AA,3.6x1.2x5.7mm,1400,	
C1SS36	2401-001479	C-AL:470uF,20%,10V,GP,TP,-,		C601	2401-002144	C-AL:47uF,20%,16V,GP,TP,5x11.5	
C1SS39	2301-000129	C-FILM,PEF:100nF,5%,50V,TP,10X9X4.3X5,5m		C602C	2203-000609	C-CERAMIC,CHIP:22nF,10%,50V,X7R,TP,2012	
CN1SS1	3711-000178	CONNECTOR-HEADER:1WALL,2P,1R,3.96mm,STRA		C603C	2203-000891	C-CERAMIC,CHIP:4.7nF,10%,50V,X7R,TP,2012	
D1SD11	0402-001195	DIODE-RECTIFIER:F1T4,400V,1.0A,TS-1,TP		C604C	2203-000891	C-CERAMIC,CHIP:4.7nF,10%,50V,X7R,TP,2012	
D1SD31	0402-001195	DIODE-RECTIFIER:F1T4,400V,1.0A,TS-1,TP		C605C	2203-000260	C-CERAMIC,CHIP:10nF,10%,50V,X7R,TP,2012	
D1SR11	0401-000101	DIODE-SWITCHING:1N4148,100V,200mA,DO-35,		C606C	2203-000260	C-CERAMIC,CHIP:10nF,10%,50V,X7R,TP,2012	
D1SS01	0402-001196	DIODE-RECTIFIER:1T5,600V,1A,TS-1,TP		C607	2401-000118	C-AL:1000uF,20%,10V,GP,TP,10x12.5,5	
D1SS02	0402-001196	DIODE-RECTIFIER:1T5,600V,1A,TS-1,TP			2401-002259	C-AL:0.1F,+80-20%,5.5V,-,TP,12.5x11	BACK-UP(1HR) ONLY
D1SS03	0402-001196	DIODE-RECTIFIER:1T5,600V,1A,TS-1,TP		C608C	2203-000575	C-CERAMIC,CHIP:220NF,10%,25V,X7R,TP,2012	
D1SS04	0402-001196	DIODE-RECTIFIER:1T5,600V,1A,TS-1,TP		C609C	2203-000609	C-CERAMIC,CHIP:22nF,10%,50V,X7R,TP,2012	
D1SS11	0402-000012	DIODE-RECTIFIER:UF4007,1KV,1A,DO-41,TP		C611C	2203-001579	C-CERAMIC,CHIP:15nF,10%,50V,NP0,TP,2012	
D1SS30	0402-000127	DIODE-RECTIFIER:1N4002,100V,1A,DO-41,TP		C612	2202-002037	C-CERAMIC,MLC-AXIAL:100nF,80-20%,50V,Y5V	
D1SS31	0402-001195	DIODE-RECTIFIER:F1T4,400V,1.0A,TS-1,TP		C613C	2203-000609	C-CERAMIC,CHIP:22nF,10%,50V,X7R,TP,2012	
D1SS32	0402-001194	DIODE-RECTIFIER:UG2D,200V,2A,DO-204AC,TP		C615C	2203-000444	C-CERAMIC,CHIP:1nF,10%,50V,X7R,TP,2012,-	
D1SS33	0402-000431	DIODE-RECTIFIER:FML-M02S,200V,2.5A,TO-22		C616	2202-000807	C-CERAMIC,MLC-AXIAL:22nF,+80-20%,25V,Y5V	
F1SS01	3601-001123	FUSE-CARTRIDGE:250V,1.6A,TIME-LAG,CERAMI	△	C617	2401-000591	C-AL:1uF,20%,50V,BP,TP,3x5,2.5mm	
IC1SS1	0604-001028	PHOTO-COUPLER:TR,50-600%,250mW,DIP-4,ST	△	C618	2401-000360	C-AL:100uF,20%,50V,GP,TP,8x11.5,5	
IC1SS2	AC14-12006D	IC:KA431Z,TO-92,TAPING		C619C	2203-000260	C-CERAMIC,CHIP:10nF,10%,50V,X7R,TP,2012	
L1SS02	AC29-00002A	FILTER LINE NOISE,-,30mH,-,-,BLF-2116	△	C620C	2203-000260	C-CERAMIC,CHIP:10nF,10%,50V,X7R,TP,2012	
L1SS31	AC27-12001N	COIL-CHOK:10UH-15%,RA,K-30,Q80,150KHZ,-		C621	2401-000118	C-AL:1000uF,20%,10V,GP,TP,10x12.5,5	
L1SS32	AC27-12001N	COIL-CHOK:10UH-15%,RA,K-30,Q80,150KHZ,-		C622C	2201-001680	C-CERAMIC,CHIP:68nF,20%,50V,Z5U,TP,2012	
PT1SS1	AC26-00002G	TRANS SWITCHING:EE2621,SV-643F,-,230V,FE	△	C623C	2203-000609	C-CERAMIC,CHIP:22nF,10%,50V,X7R,TP,2012	
Q1SR01	0502-001050	TR-POWER:2SC4517A,NPN,30W,TO-220,ST,10-		C624	2202-000205	C-CERAMIC,MLC-AXIAL:22pF,5%,50V,SL,TP,1.	BACK-UP(1HR) ONLY
Q1SR02	0501-000442	TR-SMALL SIGNAL:KTC3203-Y,NPN,400MW,TO-9		C625	2202-000205	C-CERAMIC,MLC-AXIAL:22pF,5%,50V,SL,TP,1.	BACK-UP(1HR) ONLY
R1SD11	2001-000305	R-CARBON:110KOHM,5%,1/8W,AA,TP,1.8X3.2MM		C626C	2203-000634	C-CERAMIC,CHIP:0.022nF,5%,50V,NP0,TP,201	
R1SD12	2001-000003	R-CARBON:330ohm,5%,1/8W,AA,TP,1.8X3.2mm		C627C	2203-000634	C-CERAMIC,CHIP:0.022nF,5%,50V,NP0,TP,201	
R1SD13	2001-000305	R-CARBON:110KOHM,5%,1/8W,AA,TP,1.8X3.2MM		C629C	2203-000444	C-CERAMIC,CHIP:1nF,10%,50V,X7R,TP,2012,-	
R1SD14	2001-000305	R-CARBON:110KOHM,5%,1/8W,AA,TP,1.8X3.2MM		C633C	2203-000260	C-CERAMIC,CHIP:10nF,10%,50V,X7R,TP,2012	
R1SD15	2001-000305	R-CARBON:110KOHM,5%,1/8W,AA,TP,1.8X3.2MM		C634C	2203-000260	C-CERAMIC,CHIP:10nF,10%,50V,X7R,TP,2012	
R1SD16	2003-000994	R-METAL OXIDE(S):33Kohm,5%,2W,AF,TP,3.9x		C635C	2203-000495	C-CERAMIC,CHIP:2.2nF,10%,50V,X7R,TP,2012	
R1SD31	2001-000515	R-CARBON:220OHM,5%,1/8W,AA,TP,1.8X3.2MM		C636C	2203-000495	C-CERAMIC,CHIP:2.2nF,10%,50V,X7R,TP,2012	
R1SD32	2001-000221	R-CARBON:1.2KOHM,5%,1/8W,AA,TP,1.8X3.2M		C637C	2203-000938	C-CERAMIC,CHIP:0.47nF,5%,50V,NP0,TP,2012	
R1SR11	2003-000119	R-METAL OXIDE:0.68ohm,5%,2W,AE,TP,6x16mm		C638	2401-002299	C-AL:4.7uF,20%,50V,GP,TP,5x7.5	
R1SR12	2003-000264	R-METAL OXIDE:300ohm,5%,1W,AD,TP,4.3x12m		C639C	2203-000239	C-CERAMIC,CHIP:0.1nF,5%,50V,NP0,TP,2012	
R1SR14	2001-000003	R-CARBON:330ohm,5%,1/8W,AA,TP,1.8X3.2mm		C640	2401-003107	C-AL:47uF,20%,16V,GP,TP,5x7.5	
R1SS10	2006-000262	R-CEMENT:2.7ohm,10%,2W,CB,TP,7.5x11x20.		C641	2401-002165	C-AL:100uF,20%,16V,GP,TP,6.3x7.5	
R1SS11	2003-000994	R-METAL OXIDE(S):33Kohm,5%,2W,AF,TP,3.9x		C644C	2203-000595	C-CERAMIC,CHIP:0.22nF,5%,50V,NP0,TP,2012	
R1SS32	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		C646C	2203-000192	C-CERAMIC,CHIP:100nF,+80-20%,50V,Y5V,TP,	
R1SS33	2004-000869	R-METAL:3Kohm,1%,1/8W,AA,TP,1.8X3.2mm		C651C	2203-000609	C-CERAMIC,CHIP:22nF,10%,50V,X7R,TP,2012	
R1SS34	2004-000459	R-METAL:2.2Kohm,1%,1/8W,AA,TP,1.8X3.2m					

Electrical Parts List

Loc.No	Part No	Description ; Specification	Remark
C652C	2203-000609	C-CERAMIC,CHIP:22nF,10%,50V,X7R,TP,2012	
C653C	2203-000609	C-CERAMIC,CHIP:22nF,10%,50V,X7R,TP,2012	
C690C	2203-000989	C-CERAMIC,CHIP:47nF,10%,50V,X7R,TP,2012	
C691C	2203-000260	C-CERAMIC,CHIP:10nF,10%,50V,X7R,TP,2012	
C692	2401-001479	C-AL:470uF,20%,10V,GP,TP,-,-	
C695C	2203-000361	C-CERAMIC,CHIP:0.15nF,5%,50V,NP0,TP,2012	
CN601	AC39-000368	CBF HARNESS:,-,-,-,-,-,YHL200-02P,-,-	
CN602	3708-001302	CONNECTOR-FPC/FC/PIC:7P,1.25mm,STRAIGHT,	
CN604	3711-003749	CONNECTOR-HEADER:BOX,8P2R,2mm,STRAIGHT,	
D602	0402-000127	DIODE-RECTIFIER:1N4002,100V,1A,DO-41,TP	
D603	0401-000101	DIODE-SWITCHING:1N4148,100V,200mA,DO-35,	
D604	0401-000101	DIODE-SWITCHING:1N4148,100V,200mA,DO-35,	
D612	0402-000127	DIODE-RECTIFIER:1N4002,100V,1A,DO-41,TP	
IC601	AC09-00187A	IC MICOM:uPD784927GC-501-8EU,SV-643F-01	
IC604	AC14-12006C	IC:KA7533,DIP,-	
IC605	1103-001150	IC-EEPROM:524C80D81,8KBit,DIP:8P,300MIL,	
IC608	1203-000515	IC-VOL. DETECTOR:7042,TO-92,3P,177MIL,PL	BACK-UP(1HR) ONLY
IC610	1003-001318	IC-MOTOR DRIVER:LB11880,DIP:30P,417MIL,-	
L601	2701-000002	INDUCTOR-AXIAL:100uH,10%,4.2x9.8mm	
L602	2701-000002	INDUCTOR-AXIAL:100uH,10%,4.2x9.8mm	
L603	2701-000002	INDUCTOR-AXIAL:100uH,10%,4.2x9.8mm	
LD601	0601-000517	LED-IR-RECTANGULA:4x6.0mm,75mW,6V,950	
PT601	0604-001122	PHOTO-INTERRUPTER:TR,0.065%,150mW,DIP-4,	
PT602	0604-001122	PHOTO-INTERRUPTER:TR,0.065%,150mW,DIP-4,	
Q602	0501-000398	TR-SMALL SIGNAL:KSC945,NPN,250mW,TO-92,T	
R601C	2007-001024	R-CHIP:560KOHM,5%,1/10W,DA,TP,2012	
R602C	2007-000282	R-CHIP:100KOHM,5%,1/10W,DA,TP,2012	
R603C	2007-000710	R-CHIP:3.9KOHM,5%,1/10W,DA,TP,2012	
R607	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R608	2001-000864	R-CARBON:56KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R609C	2007-001039	R-CHIP:56KOHM,5%,1/10W,DA,TP,2012	
R610	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R611	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R613	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	BACK-UP(1HR) ONLY
R614	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R641	2001-000780	R-CARBON:470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R642	2001-000780	R-CARBON:470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R644	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R650	2003-000111	R-METAL OXIDE:0.47ohm,5%,1W,AD,TP,4.3x12	
R651C	2007-000001	R-CHIP:68KOHM,5%,1/10W,DA,TP,2012	
R654	2001-000812	R-CARBON:5.6KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R655C	2007-000941	R-CHIP:47KOHM,5%,1/10W,DA,TP,2012	
R656C	2007-000241	R-CHIP:1.5KOHM,5%,1/10W,DA,TP,2012	
R657	2001-000010	R-CARBON:68KOHM,5%,1/8W,AA,TP,1.8X3.2MM	BACK-UP(1HR) ONLY
R660	2001-000786	R-CARBON:47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R661	2001-000660	R-CARBON:33KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R666C	2007-000931	R-CHIP:470OHM,5%,1/10W,DA,TP,2012	
R667C	2007-000931	R-CHIP:470OHM,5%,1/10W,DA,TP,2012	
R668C	2007-000300	R-CHIP:10KOHM,5%,1/10W,DA,TP,2012	
R669C	2007-000300	R-CHIP:10KOHM,5%,1/10W,DA,TP,2012	
R670	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R671	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R672	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R673	2001-000273	R-CARBON:100KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R674	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R675	2001-000032	R-CARBON:180OHM,5%,1/4W,AA,TP,2.4X6.4MM	
R676	2001-000633	R-CARBON:30KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R677	2001-000522	R-CARBON:22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R678	2001-000522	R-CARBON:22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R679	2001-000515	R-CARBON:220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R682C	2007-000586	R-CHIP:22KOHM,5%,1/10W,DA,TP,2012	
R685C	2007-000774	R-CHIP:33KOHM,5%,1/10W,DA,TP,2012	
R686	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R687	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R688	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R690C	2007-001039	R-CHIP:56KOHM,5%,1/10W,DA,TP,2012	

Loc.No	Part No	Description ; Specification	Remark
R691C	2007-000572	R-CHIP:220OHM,5%,1/10W,DA,TP,2012	
R692	2001-000568	R-CARBON:270OHM,5%,1/8W,AA,TP,1.8X3.2MM	BACK-UP(1HR) ONLY
R693	2001-000786	R-CARBON:47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R694	2001-000786	R-CARBON:47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R698C	2007-000300	R-CHIP:10KOHM,5%,1/10W,DA,TP,2012	
R699C	2007-000300	R-CHIP:10KOHM,5%,1/10W,DA,TP,2012	
RS601	AC34-20100B	SWITCH-REC:-,-,X,-,-	
S601	0603-001011	PHOTO-TR:NPN,35V,6V,50mA,75mW,BK	
S602	0603-001011	PHOTO-TR:NPN,35V,6V,50mA,75mW,BK	
SW601	AC34-20100A	SWITCH-MODE:-,-,X,-,-	
W067	2701-000002	INDUCTOR-AXIAL:100uH,10%,4.2x9.8mm	
W121	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
W122	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
W136	2701-000002	INDUCTOR-AXIAL:100uH,10%,4.2x9.8mm	
W230	0402-000127	DIODE-RECTIFIER:1N4002,100V,1A,DO-41,TP	
W513	0401-000101	DIODE-SWITCHING:1N4148,100V,200mA,DO-35,	
XT601	2801-003318	CRYSTAL-UNIT:32.768KHz,20ppm,28-AAP,12.5	BACK-UP(1HR) ONLY
XT602	2801-003139	CRYSTAL-UNIT:8MHz,50ppm,28-AAP,22pf,80oh	

AUDIO/VIDEO PARTS

C301	2401-001919	C-AL:2.2uF,20%,50V,-,TP,4x7mm,5	
C302	2301-000283	C-FILM,PEF:47nF,5%,100V,TP,7.3X7X3.2X5.5	
C303	2401-000598	C-AL:1uF,20%,50V,GP,TP,4x7.5	
C304C	2203-000683	C-CERAMIC,CHIP:0.027nF,5%,50V,NP0,TP,201	
C305	2202-000164	C-CERAMIC,MLC-AXIAL:0.18nF,10%,50V,Y5P,T	
C306	2202-000231	C-CERAMIC,MLC-AXIAL:330pF,10%,50V,Y5P,TP	
C307C	2203-000392	C-CERAMIC,CHIP:0.015nF,5%,50V,SL,TP,2012	
C308C	2203-000260	C-CERAMIC,CHIP:10nF,10%,50V,X7R,TP,2012	
C309	2401-000598	C-AL:1uF,20%,50V,GP,TP,4x7.5	
C310	2401-000414	C-AL:10uF,20%,16V,GP,TP,4x7.5	
C311	2401-000918	C-AL:22uF,20%,16V,GP,-,6.3x7.5	
C313C	2203-000444	C-CERAMIC,CHIP:1nF,10%,50V,X7R,TP,2012,-	
C314	2401-001775	C-AL:470nF,20%,50V,GP,TP,4x7.5	
C315	2401-000414	C-AL:10uF,20%,16V,GP,TP,4x7.5	
C316C	2203-001064	C-CERAMIC,CHIP:56nF,10%,50V,NP0,TP,2012	
C318C	2203-000192	C-CERAMIC,CHIP:100nF,+80-20%,50V,Y5V,TP,	
C320	2401-000598	C-AL:1uF,20%,50V,GP,TP,4x7.5	
C321	2401-000414	C-AL:10uF,20%,16V,GP,TP,4x7.5	
C322	2401-000598	C-AL:1uF,20%,50V,GP,TP,4x7.5	
C323C	2203-000260	C-CERAMIC,CHIP:10nF,10%,50V,X7R,TP,2012	
C324C	2203-000260	C-CERAMIC,CHIP:10nF,10%,50V,X7R,TP,2012	
C325	2202-000797	C-CERAMIC,MLC-AXIAL:10NF,30%,16V,Y5S,TP,	
C326	2202-002037	C-CERAMIC,MLC-AXIAL:100nF,80-20%,50V,Y5V	
C327	2401-003107	C-AL:47uF,20%,16V,GP,TP,5x7.5	
C328	2202-000797	C-CERAMIC,MLC-AXIAL:10NF,30%,16V,Y5S,TP,	
C329	2202-000797	C-CERAMIC,MLC-AXIAL:10NF,30%,16V,Y5S,TP,	
C330	2202-000797	C-CERAMIC,MLC-AXIAL:10NF,30%,16V,Y5S,TP,	
C331	2401-003107	C-AL:47uF,20%,16V,GP,TP,5x7.5	
C332C	2203-000192	C-CERAMIC,CHIP:100nF,+80-20%,50V,Y5V,TP,	
C333	2401-000598	C-AL:1uF,20%,50V,GP,TP,4x7.5	
C334C	2203-000989	C-CERAMIC,CHIP:47nF,10%,50V,X7R,TP,2012	
C335	2401-000598	C-AL:1uF,20%,50V,GP,TP,4x7.5	
C336	2401-000598	C-AL:1uF,20%,50V,GP,TP,4x7.5	
C337	2202-000807	C-CERAMIC,MLC-AXIAL:22nF,+80-20%,25V,Y5V	
C338C	2203-000260	C-CERAMIC,CHIP:10nF,10%,50V,X7R,TP,2012	
C339C	2203-000989	C-CERAMIC,CHIP:47nF,10%,50V,X7R,TP,2012	
C340C	2203-000609	C-CERAMIC,CHIP:22nF,10%,50V,X7R,TP,2012	
C341	2401-003107	C-AL:47uF,20%,16V,GP,TP,5x7.5	
C342	2202-002037	C-CERAMIC,MLC-AXIAL:100nF,80-20%,50V,Y5V	
C343C	2203-000260	C-CERAMIC,CHIP:10nF,10%,50V,X7R,TP,2012	
C345C	2203-001088	C-CERAMIC,CHIP:0.005nF,0.25pF,50V,NP0,TP	
C346	2401-003107	C-AL:47uF,20%,16V,GP,TP,5x7.5	
C347C	2203-001077	C-CERAMIC,CHIP:0.056nF,5%,50V,NP0,TP,201	
C348C	2203-001077	C-CERAMIC,CHIP:0.056nF,5%,50V,NP0,TP,201	
C349C	2203-000429	C-CERAMIC,CHIP:0.018nF,5%,50V,NP0,TP,201	
C350C	2203-000260	C-CERAMIC,CHIP:10nF,10%,50V,X7R,TP,2012	

Loc.No	Part No	Description ; Specification	Remark
C351	2202-000121	C-CERAMIC,MLC-AXIAL:100pF,10%,50V,Y5P,TP	
C380C	2203-000749	C-CERAMIC,CHIP:30pF,5%,50V,NPO,TP,2012,-	
C381	2202-000797	C-CERAMIC,MLC-AXIAL:10nF,30%,16V,Y5S,TP,	
C390	2202-002037	C-CERAMIC,MLC-AXIAL:100nF,80-20%,50V,Y5V	
C393	2202-000787	C-CERAMIC,MLC-AXIAL:10PF,5%,50V,Y5P,TP,3	
C395	2202-002037	C-CERAMIC,MLC-AXIAL:100nF,80-20%,50V,Y5V	
C399	2202-002037	C-CERAMIC,MLC-AXIAL:100nF,80-20%,50V,Y5V	
C3A01	2401-002299	C-AL:4.7uF,20%,50V,GP,TP,5x7,5	
C3A02C	2203-000192	C-CERAMIC,CHIP:100nF,+80-20%,50V,Y5V,TP,	
C3A04C	2203-000192	C-CERAMIC,CHIP:100nF,+80-20%,50V,Y5V,TP,	
C3A08	2301-000383	C-FILM,PEF:10nF,5%,50V,TP,6x7x3.2mm,5mm	
C3A09	2301-001014	C-FILM,PEF:6.8nF,5%,50V,TP,7x3x6,5mm	
C3A10C	2203-001214	C-CERAMIC,CHIP:8.2nF,10%,50V,X7R,TP,2012	
C3A11	2301-000253	C-FILM,PEF:39nF,5%,100V,TP,7.5X4.5X12.5MM	
C3A12	2401-003107	C-AL:47uF,20%,16V,GP,TP,5x7,5	
C3A13C	2203-000323	C-CERAMIC,CHIP:12nF,10%,50V,X7R,TP,2012,	
C3A14C	2203-001105	C-CERAMIC,CHIP:6.8nF,10%,50V,X7R,TP,2012	
C3A15C	2203-000260	C-CERAMIC,CHIP:10nF,10%,50V,X7R,TP,2012	
C3A16	2401-003122	C-AL:4.7uF,20%,50V,LL,TP,4X7,1.5	
C3A17	2401-000414	C-AL:10uF,20%,16V,GP,TP,4x7,5	
C3A18C	2203-001665	C-CERAMIC,CHIP:0.56nF,10%,50V,X7R,TP,201	
C3A21C	2203-000495	C-CERAMIC,CHIP:2.2nF,10%,50V,X7R,TP,2012	
C3A23	2401-001169	C-AL:33uF,20%,16V,GP,TP,6.3x7,2.5mm	
C3A24	2202-002037	C-CERAMIC,MLC-AXIAL:100nF,80-20%,50V,Y5V	
C3A25	2401-000918	C-AL:22uF,20%,16V,GP,TP,6.3x7,5	
C3A29	2202-002037	C-CERAMIC,MLC-AXIAL:100nF,80-20%,50V,Y5V	
C3A30	2401-003107	C-AL:47uF,20%,16V,GP,TP,5x7,5	
C3A31C	2203-000192	C-CERAMIC,CHIP:100nF,+80-20%,50V,Y5V,TP,	
CN301	3708-000394	CONNECTOR-FPC/FC/PIC:6P,1.25mm,STRAIGHT,	
CN3A01	3708-001165	CONNECTOR-FPC/FC/PIC:6P,1.25mm,STRAIGHT,	
CN3A02	3710-001648	CONNECTOR-SOCKET:2P,1R,2.5mm,STRAIGHT,SN	
D302	0401-000101	DIODE-SWITCHING:1N4148,100V,200mA,DO-35,	
FL3A01	AC27-80100C	COIL-OSC:7mm,2.4mH,-	
IC301	1204-001649	IC-VIDEO PROCESS:LA71598M,QFP,100P,-,PLA	
L301	2701-000206	INDUCTOR-AXIAL:56uH,5%,2.4x3.4mm	
L302	2701-000002	INDUCTOR-AXIAL:100uH,10%,4.2x9.8mm	
L304	2702-000106	INDUCTOR-RADIAL:100uH,10%,6.2x7.4mm	
L306	2701-000119	INDUCTOR-AXIAL:120uH,5%,2.4x3.4mm	
L307	2701-000122	INDUCTOR-AXIAL:12uH,5%,2.4x3.4mm	
L310	2702-000106	INDUCTOR-RADIAL:100uH,10%,6.2x7.4mm	
L3A01	2702-000120	INDUCTOR-RADIAL:15mH,5%,6.2x7.4mm	
L3A02	2702-000106	INDUCTOR-RADIAL:100uH,10%,6.2x7.4mm	
L3A03	2702-000106	INDUCTOR-RADIAL:100uH,10%,6.2x7.4mm	
Q302	0501-000303	TR-SMALL SIGNAL:KSA733,PNP,250mW,TO-92,T	
Q303	0501-000398	TR-SMALL SIGNAL:KSC945,NPN,250mW,TO-92,T	
Q304	0501-000398	TR-SMALL SIGNAL:KSC945,NPN,250mW,TO-92,T	
Q308	0501-000398	TR-SMALL SIGNAL:KSC945,NPN,250mW,TO-92,T	
Q309	0501-000398	TR-SMALL SIGNAL:KSC945,NPN,250mW,TO-92,T	
Q3A01	0501-000303	TR-SMALL SIGNAL:KSA733,PNP,250mW,TO-92,T	
Q3A03	0501-000442	TR-SMALL SIGNAL:KTC3203-Y,NPN,400mW,TO-9	
Q3A04	0501-000442	TR-SMALL SIGNAL:KTC3203-Y,NPN,400mW,TO-9	
Q3A05	0501-000442	TR-SMALL SIGNAL:KTC3203-Y,NPN,400mW,TO-9	
Q3A06	0501-000303	TR-SMALL SIGNAL:KSA733,PNP,250mW,TO-92,T	
R301	2001-000449	R-CARBON:2.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R302C	2007-000468	R-CHIP:1KOHM,5%,1/10W,DA,TP,2012	
R304	2001-000977	R-CARBON:8.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R305C	2007-000267	R-CHIP:1.8KOHM,5%,1/10W,DA,TP,2012	
R306C	2007-000024	R-CHIP:1.3KOHM,5%,1/10W,DA,TP,2012	
R308	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R309C	2007-000859	R-CHIP:4.3KOHM,5%,1/10W,DA,TP,2012	
R311C	2007-000468	R-CHIP:1KOHM,5%,1/10W,DA,TP,2012	
R312C	2007-000241	R-CHIP:1.5KOHM,5%,1/10W,DA,TP,2012	
R313	2001-000515	R-CARBON:220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R314C	2007-001118	R-CHIP:680OHM,5%,1/10W,DA,TP,2012	
R315	2001-000472	R-CARBON:2.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R316C	2007-000221	R-CHIP:1.2KOHM,5%,1/10W,DA,TP,2012	

Loc.No	Part No	Description ; Specification	Remark
R317C	2007-000766	R-CHIP:330OHM,5%,1/10W,DA,TP,2012	
R318C	2007-000766	R-CHIP:330OHM,5%,1/10W,DA,TP,2012	
R320	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R321	2001-000495	R-CARBON:20KOHM,5%,1/4W,AA,TP,2.4X6.4MM	
R322	2001-000539	R-CARBON:24KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R325C	2007-000518	R-CHIP:2.7KOHM,5%,1/10W,DA,TP,2012	
R326C	2007-001001	R-CHIP:510OHM,5%,1/10W,DA,TP,2012	
R327C	2007-001001	R-CHIP:510OHM,5%,1/10W,DA,TP,2012	
R328	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R329C	2007-000686	R-CHIP:3.3KOHM,5%,1/10W,DA,TP,2012	
R330	2007-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R331C	2007-000572	R-CHIP:220OHM,5%,1/10W,DA,TP,2012	
R332	2001-000780	R-CARBON:470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R333	2001-000780	R-CARBON:470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R334	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R335	2001-000800	R-CARBON:5.1KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R336	2001-000008	R-CARBON:15KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R341C	2007-001208	R-CHIP:82KOHM,5%,1/10W,DA,TP,2012	
R342	2001-000812	R-CARBON:5.6KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R3A01	2001-000331	R-CARBON:12KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R3A04C	2007-000468	R-CHIP:1KOHM,5%,1/10W,DA,TP,2012	
R3A05C	2007-000774	R-CHIP:33KOHM,5%,1/10W,DA,TP,2012	
R3A06C	2007-000449	R-CHIP:180OHM,5%,1/10W,DA,TP,2012	
R3A07C	2007-000757	R-CHIP:330KOHM,5%,1/10W,DA,TP,2012	
R3A08C	2007-000355	R-CHIP:12KOHM,5%,1/10W,DA,TP,2012	
R3A09C	2007-000981	R-CHIP:5.6KOHM,5%,1/10W,DA,TP,2012	
R3A10	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R3A11C	2007-000267	R-CHIP:1.8KOHM,5%,1/10W,DA,TP,2012	
R3A12C	2007-000502	R-CHIP:2.2OHM,5%,1/10W,DA,TP,2012	
R3A13C	2007-000931	R-CHIP:470OHM,5%,1/10W,DA,TP,2012	
R3A14	2001-000522	R-CARBON:22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R3A16	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R3A17	2001-000613	R-CARBON:3.9KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R3A18	2001-000613	R-CARBON:3.9KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R3A19C	2007-000449	R-CHIP:180OHM,5%,1/10W,DA,TP,2012	
R3A22C	2007-000703	R-CHIP:3.6KOHM,5%,1/10W,DA,TP,2012	
R3A23C	2007-000300	R-CHIP:10KOHM,5%,1/10W,DA,TP,2012	
R3A24C	2007-000586	R-CHIP:22KOHM,5%,1/10W,DA,TP,2012	
R3A25C	2007-000221	R-CHIP:1.2KOHM,5%,1/10W,DA,TP,2012	
R3A26C	2007-000355	R-CHIP:12KOHM,5%,1/10W,DA,TP,2012	
R3A28C	2007-000859	R-CHIP:4.3KOHM,5%,1/10W,DA,TP,2012	
R3A29C	2007-000859	R-CHIP:4.3KOHM,5%,1/10W,DA,TP,2012	
R3A30	2001-000454	R-CARBON:2.2MOHM,5%,1/8W,AA,TP,1.8X3.2M	
R3A32	2001-000766	R-CARBON:43KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R3A33	2001-000766	R-CARBON:43KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R3A37C	2007-001141	R-CHIP:7.5KOHM,5%,1/10W,DA,TP,2012	
XT301	2801-001397	CRYSTAL-UNIT:4.433619MHZ,HC-49/U-S 15PPM	

TM-BLOCK

C401	2401-002144	C-AL:47uF,20%,16V,GP,TP,5x11,5	
C402	2202-000807	C-CERAMIC,MLC-AXIAL:22nF,+80-20%,25V,Y5V	
C403	2401-002144	C-AL:47uF,20%,16V,GP,TP,5x11,5	
C404	2401-001085	C-AL:330nF,20%,50V,GP,TP,5x9,2mm	
C405	2401-003046	C-AL:47uF,20%,50V,WT,TP,6.3x11,2.5	
C406C	2203-000609	C-CERAMIC,CHIP:22nF,10%,50V,X7R,TP,2012	
C407	2401-002144	C-AL:47uF,20%,16V,GP,TP,5x11,5	
C410	2202-002037	C-CERAMIC,MLC-AXIAL:100nF,80-20%,50V,Y5V	
L401	2701-000002	INDUCTOR-AXIAL:100uH,10%,4.2x9.8mm	
R401C	2007-000941	R-CHIP:47KOHM,5%,1/10W,DA,TP,2012	
R402	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R403	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R404	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R406	2001-000522	R-CARBON:22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R407	2001-000977	R-CARBON:8.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R408	2001-000221	R-CARBON:1.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
TM401	AC40-00001F	TM-BLOCK:TCMB0600PD11A,PAL-B/G(MONO),TC	PAL-B/G

Electrical Parts List

Loc.No	Part No	Description ; Specification	Remark
TM401	AC40-00001G	TM-BLOCK:TCMK0600PD11A,G/I/K(MONO),TCMK	G/I/K
ZD401	0403-000390	DIODE-ZENER:UZP33B,33V,31.4-34.6V,1W,DO-	
OSD/PDC PARTS			
C6P01	2202-002037	C-CERAMIC,MLC-AXIAL:100nF,80-20%,50V,Y5V	
C6P02	2401-001479	C-AL:470uF,20%,10V,GP,TP,-	
C6P03	2202-000797	C-CERAMIC,MLC-AXIAL:10NF,30%,16V,Y5S,TP	
C6P04	2202-000216	C-CERAMIC,MLC-AXIAL:.027NF,5%,50V,SL,TP	
C6P05	2202-000216	C-CERAMIC,MLC-AXIAL:.027NF,5%,50V,SL,TP	
C6P06	2301-000402	C-FILM,PEF:1nF,5%,50V,TP,5x7x2.8mm,5mm	PDC OPTION
C6P07	2401-002299	C-AL:4.7uF,20%,50V,GP,TP,5x7.5	PDC OPTION
C6P08C	2203-001077	C-CERAMIC,CHIP:0.056nF,5%,50V,NP0,TP,201	
C6P10	2401-000598	C-AL:1uF,20%,50V,GP,TP,4x7.5	
C6P11	2401-000598	C-AL:1uF,20%,50V,GP,TP,4x7.5	
C6P12	2401-001479	C-AL:470uF,20%,10V,GP,TP,-	
C6P13	2202-002037	C-CERAMIC,MLC-AXIAL:100nF,80-20%,50V,Y5V	
C6P50	2202-000145	C-CERAMIC,MLC-AXIAL:12NF,10%,50V,Y5P,TP	OSD OPTION
IC6P01	1204-001794	IC-AUDIO PROCESSOR:LC74775NM-9808,MPE,30	PDC ONLY
IC6P01	AC09-00077A	IC-OSD:LC74758JM-9779,LC74758JM-9779,	OSD ONLY
L6P01	2702-000106	INDUCTOR-RADIAL:100uH,10%,6.2x7.4mm	
L6P03	2701-000160	INDUCTOR-AXIAL:22uH,5%,2.4x3.4mm	
L6P05	2702-001077	INDUCTOR-RADIAL:27uH,5%,5.5x5.5mm	
O6P01	0501-000303	TR-SMALL SIGNAL:KSA733,PNP,250mW,TO-92,T	
O6P02	0501-000303	TR-SMALL SIGNAL:KSA733,PNP,250mW,TO-92,T	
R6P01C	2007-000290	R-CHIP:100OHM,5%,1/10W,DA,TP,2012	PDC OPTION
R6P02	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	PDC OPTION
R6P03C	2007-000518	R-CHIP:2.7KOHM,5%,1/10W,DA,TP,2012	PDC OPTION
R6P04C	2007-000300	R-CHIP:1KOHM,5%,1/10W,DA,TP,2012	PDC OPTION
R6P05	2001-000290	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	PDC OPTION
R6P06C	2007-000981	R-CHIP:5.6KOHM,5%,1/10W,DA,TP,2012	PDC OPTION
R6P07	2001-000490	R-CARBON:200OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R6P08	2001-000685	R-CARBON:390ohm,2%,1/8W,AD,TP,1.8x3.2mm	
R6P10	2001-000515	R-CARBON:220OHM,5%,1/8W,AA,TP,1.8X3.2MM	

INPUT-POUPUT PARTS

C801C	2203-000239	C-CERAMIC,CHIP:0.1nF,5%,50V,NP0,TP,2012	
C802C	2203-000476	C-CERAMIC,CHIP:1000nF,+80-20%,16V,Y5V,TP	
C804	2202-000797	C-CERAMIC,MLC-AXIAL:10NF,30%,16V,Y5S,TP	
C805	2401-003107	C-AL:47uF,20%,16V,GP,TP,5x7.5	
C806C	2203-000239	C-CERAMIC,CHIP:0.1nF,5%,50V,NP0,TP,2012	
C807	2202-002037	C-CERAMIC,MLC-AXIAL:100nF,80-20%,50V,Y5V	
C809C	2203-000476	C-CERAMIC,CHIP:1000nF,+80-20%,16V,Y5V,TP	
C810	2401-000598	C-AL:1uF,20%,50V,GP,TP,4x7.5	
C813	2401-000598	C-AL:1uF,20%,50V,GP,TP,4x7.5	
C817	2401-001101	C-AL:330uF,20%,16V,GP,TP,8x11.5.5	
C818	2202-000797	C-CERAMIC,MLC-AXIAL:10NF,30%,16V,Y5S,TP	
C819	2401-001507	C-AL:47uF,20%,16V,GP,TP,6.3x5.5	
C820	2202-002037	C-CERAMIC,MLC-AXIAL:100nF,80-20%,50V,Y5V	
C821	2401-001479	C-AL:470uF,20%,10V,GP,TP,-	
C822	2203-000239	C-CERAMIC,CHIP:0.1nF,5%,50V,NP0,TP,2012	
C826C	2203-000239	C-CERAMIC,CHIP:0.1nF,5%,50V,NP0,TP,2012	
C827	2202-000797	C-CERAMIC,MLC-AXIAL:10NF,30%,16V,Y5S,TP	
C830	2202-000797	C-CERAMIC,MLC-AXIAL:10NF,30%,16V,Y5S,TP	
C834C	2203-000495	C-CERAMIC,CHIP:2.2nF,10%,50V,X7R,TP,2012	
C837C	2203-000784	C-CERAMIC,CHIP:0.33nF,5%,50V,NP0,TP,2012	
C842C	2203-000784	C-CERAMIC,CHIP:0.33nF,5%,50V,NP0,TP,2012	
C845C	2203-000495	C-CERAMIC,CHIP:2.2nF,10%,50V,X7R,TP,2012	
C850	2202-000797	C-CERAMIC,MLC-AXIAL:10NF,30%,16V,Y5S,TP	
C852C	2203-000476	C-CERAMIC,CHIP:1000nF,+80-20%,16V,Y5V,TP	
C854C	2203-000476	C-CERAMIC,CHIP:1000nF,+80-20%,16V,Y5V,TP	
D802	0401-000101	DIODE-SWITCHING:1N4148,100V,200mA,DO-35,	
D805	0401-000101	DIODE-SWITCHING:1N4148,100V,200mA,DO-35,	
IC801	1204-001764	IC-AUDIO PROCESSOR:LA73025V,SSOP,44P,154	
JC801	3722-001573	JACK-SCART:42P/2R,-,SN,BLK/BLU,#20-28	
L802	2701-000002	INDUCTOR-AXIAL:100uH,10%,4.2x9.8mm	
L805	2701-000181	INDUCTOR-AXIAL:33uH,5%,2.4x3.4mm	

Loc.No	Part No	Description ; Specification	Remark
L806	2701-000002	INDUCTOR-AXIAL:100uH,10%,4.2x9.8mm	
L808	2701-000181	INDUCTOR-AXIAL:33uH,5%,2.4x3.4mm	
L810	2701-000181	INDUCTOR-AXIAL:33uH,5%,2.4x3.4mm	
L811	2701-000181	INDUCTOR-AXIAL:33uH,5%,2.4x3.4mm	
L814	AC27-92001M	INDUCTOR:70UH-M RT BFS3565R2F,-,-,-	
Q801	0501-000290	TR-SMALL SIGNAL:KSA643-YPNP,500mW,TO-92	
Q805	0504-000119	TR-DIGITAL:KSR1004,NPN,300MW,47K/47K,TO-	
R803	2001-000116	R-CARBON:820OHM,5%,1/4W,AA,TP,2.4X6.4MM	
R804	2001-000273	R-CARBON:100KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R807C	2007-001166	R-CHIP:75OHM,5%,1/10W,DA,TP,2012	
R808C	2007-001166	R-CHIP:75OHM,5%,1/10W,DA,TP,2012	
R809	2001-000969	R-CARBON:75OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R810C	2007-000468	R-CHIP:1KOHM,5%,1/10W,DA,TP,2012	
R811C	2007-000468	R-CHIP:1KOHM,5%,1/10W,DA,TP,2012	
R812C	2007-001166	R-CHIP:75OHM,5%,1/10W,DA,TP,2012	
R813C	2007-000468	R-CHIP:1KOHM,5%,1/10W,DA,TP,2012	
R814C	2007-000468	R-CHIP:1KOHM,5%,1/10W,DA,TP,2012	
R815C	2007-000468	R-CHIP:1KOHM,5%,1/10W,DA,TP,2012	
R816C	2007-000468	R-CHIP:1KOHM,5%,1/10W,DA,TP,2012	
R818	2001-000449	R-CARBON:2.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R819C	2007-000468	R-CHIP:1KOHM,5%,1/10W,DA,TP,2012	
R820C	2007-000468	R-CHIP:1KOHM,5%,1/10W,DA,TP,2012	
R821C	2007-000774	R-CHIP:33KOHM,5%,1/10W,DA,TP,2012	
R822C	2007-000586	R-CHIP:22KOHM,5%,1/10W,DA,TP,2012	
R823C	2007-000290	R-CHIP:100OHM,5%,1/10W,DA,TP,2012	
R826	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R827	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R828C	2007-000290	R-CHIP:100OHM,5%,1/10W,DA,TP,2012	

DISPLAY/FUNCTION MATRIX PARTS

C701	2401-001479	C-AL:470uF,20%,10V,GP,TP,-	
C702C	2203-000260	C-CERAMIC,CHIP:10nF,10%,50V,X7R,TP,2012	
C703	2202-000173	C-CERAMIC,MLC-AXIAL:1nF,10%,50V,Y5P,TP,1	
CN708	3711-004625	CONNECTOR-HEADER:3WALL,8P,1R,2mm,STRAIGH	
D701	0401-000101	DIODE-SWITCHING:1N4148,100V,200mA,DO-35,	
D702	0401-000101	DIODE-SWITCHING:1N4148,100V,200mA,DO-35,	
D703	0401-000101	DIODE-SWITCHING:1N4148,100V,200mA,DO-35,	
D704	0401-000101	DIODE-SWITCHING:1N4148,100V,200mA,DO-35,	
D705	0401-000101	DIODE-SWITCHING:1N4148,100V,200mA,DO-35,	
D708	0401-000101	DIODE-SWITCHING:1N4148,100V,200mA,DO-35,	
D709	0401-000101	DIODE-SWITCHING:1N4148,100V,200mA,DO-35,	
D720	0401-000101	DIODE-SWITCHING:1N4148,100V,200mA,DO-35,	
D1701	AC07-00006A	LED DISPLAY:A-304EG,X-9,35,8.5,50x18.5.G	
Q701	0501-000398	TR-SMALL SIGNAL:KSC945,NPN,250mW,TO-92,T	
Q702	0501-000398	TR-SMALL SIGNAL:KSC945,NPN,250mW,TO-92,T	
Q703	0501-000398	TR-SMALL SIGNAL:KSC945,NPN,250mW,TO-92,T	
Q704	0501-000398	TR-SMALL SIGNAL:KSC945,NPN,250mW,TO-92,T	
Q705	0501-000398	TR-SMALL SIGNAL:KSC945,NPN,250mW,TO-92,T	
Q706	0501-000398	TR-SMALL SIGNAL:KSC945,NPN,250mW,TO-92,T	
Q707	0501-000398	TR-SMALL SIGNAL:KSC945,NPN,250mW,TO-92,T	
Q708	0501-000398	TR-SMALL SIGNAL:KSC945,NPN,250mW,TO-92,T	
Q711	0501-000290	TR-SMALL SIGNAL:KSA643-YPNP,500mW,TO-92	
Q712	0501-000290	TR-SMALL SIGNAL:KSA643-YPNP,500mW,TO-92	
Q713	0501-000290	TR-SMALL SIGNAL:KSA643-YPNP,500mW,TO-92	
Q714	0501-000290	TR-SMALL SIGNAL:KSA643-YPNP,500mW,TO-92	
Q715	0501-000290	TR-SMALL SIGNAL:KSA643-YPNP,500mW,TO-92	
R701	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R702	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R703	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R704	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R705	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R706	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R707	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R708C	2007-000300	R-CHIP:10KOHM,5%,1/10W,DA,TP,2012	
R711	2001-000449	R-CARBON:2.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R712	2001-000449	R-CARBON:2.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	

Loc.No	Part No	Description ; Specification	Remark
R713	2001-000449	R-CARBON:2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R714	2001-000449	R-CARBON:2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R715	2001-000449	R-CARBON:2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R716	2001-000969	R-CARBON:75OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R717C	2007-001166	R-CHIP:75OHM,5%,1/10W,DA,TP,2012	
R718	2001-000969	R-CARBON:75OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R719C	2007-001166	R-CHIP:75OHM,5%,1/10W,DA,TP,2012	
R720C	2007-001166	R-CHIP:75OHM,5%,1/10W,DA,TP,2012	
R721C	2007-001166	R-CHIP:75OHM,5%,1/10W,DA,TP,2012	
R722C	2007-001166	R-CHIP:75OHM,5%,1/10W,DA,TP,2012	
R723C	2007-001166	R-CHIP:75OHM,5%,1/10W,DA,TP,2012	
R727C	2007-000409	R-CHIP:15KOHM,5%,1/10W,DA,TP,2012	
R728C	2007-000409	R-CHIP:15KOHM,5%,1/10W,DA,TP,2012	
R731	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
RM701	AC32-00002A	MODULE-REMOCON:-,GP1U291Q,38KHZ,-,7.3X13	
SW701	3404-001076	SWITCH-TACT:12V,50mA,16gf+-50gf,6x6mm,SP	
SW703	3404-001076	SWITCH-TACT:12V,50mA,16gf+-50gf,6x6mm,SP	
SW708	3404-001076	SWITCH-TACT:12V,50mA,16gf+-50gf,6x6mm,SP	
SW709	3404-001076	SWITCH-TACT:12V,50mA,16gf+-50gf,6x6mm,SP	
SW711	3404-001076	SWITCH-TACT:12V,50mA,16gf+-50gf,6x6mm,SP	
SW712	3404-001076	SWITCH-TACT:12V,50mA,16gf+-50gf,6x6mm,SP	
SW714	3404-001076	SWITCH-TACT:12V,50mA,16gf+-50gf,6x6mm,SP	
SW718	3404-000165	SWITCH-TACT:12V,50mA,160gf,6x6mm,SPST	
SW719	3404-001076	SWITCH-TACT:12V,50mA,16gf+-50gf,6x6mm,SP	
SW723	3404-001076	SWITCH-TACT:12V,50mA,16gf+-50gf,6x6mm,SP	
SW724	3404-001076	SWITCH-TACT:12V,50mA,16gf+-50gf,6x6mm,SP	
-	-	ASSY PCB-F.AV	S.N.A.
C711	2202-000173	C-CERAMIC,MLC-AXIAL:1nf,10%,50V,Y5P,TP,1	
C713	2401-000414	C-AL:10uF,20%,16V,GP,TP,4x7,5	
CN705	3710-001626	CONNECTOR-SOCKET:8P,1R,2mm,ANGLE,SN	
JC701	AC37-22002J	JACK-PIN:3.2mm,DPSE-9814,2P,13mm,S/W	
L701	2701-000181	INDUCTOR-AXIAL:33uH,5%,2.4x3.4mm	
R741	2001-000281	R-CARBON:1000HM,5%,1/8W,AA,TP,1.8X3.2MM	
R742	2001-000969	R-CARBON:75OHM,5%,1/8W,AA,TP,1.8X3.2MM	
SW715	3404-001008	SWITCH-TACT:15V,20mA,160gf,6x7.9x3.5mm,S	
SW716	3404-001008	SWITCH-TACT:15V,20mA,160gf,6x7.9x3.5mm,S	

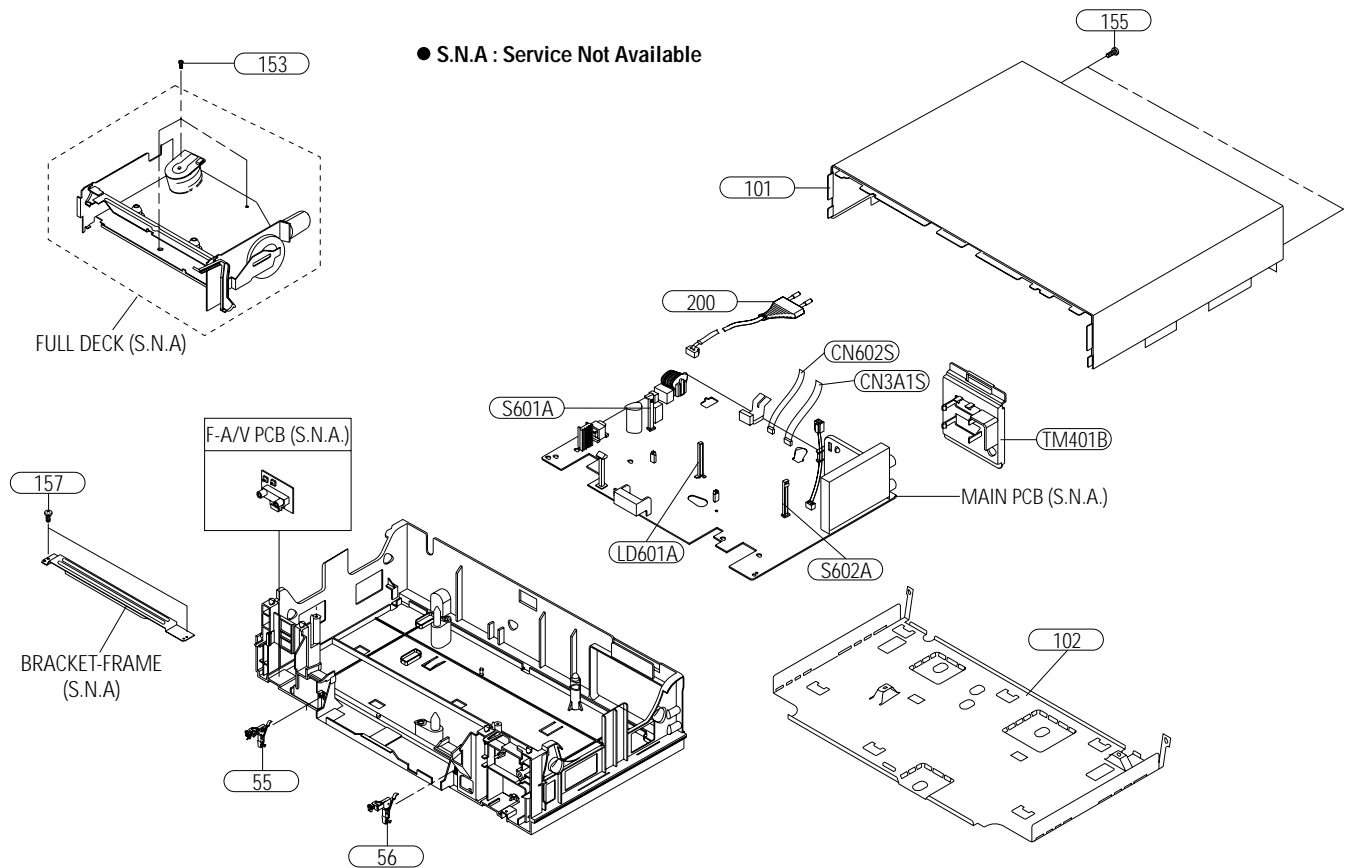
Loc.No	Part No	Description ; Specification	Remark
--------	---------	-----------------------------	--------

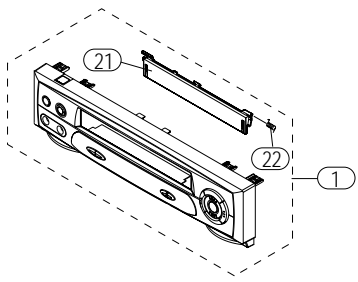
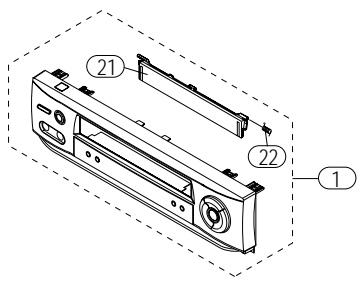

MEMO

3. Exploded View and Parts List

	Page
3-1 Cabinet Assembly - - - - -	3-2
3-2 Mechanical Parts (Top Side) - - - - -	3-4
3-3 Mechanical Parts (Bottom Side) - - - - -	3-6

3-1 Cabinet Assembly

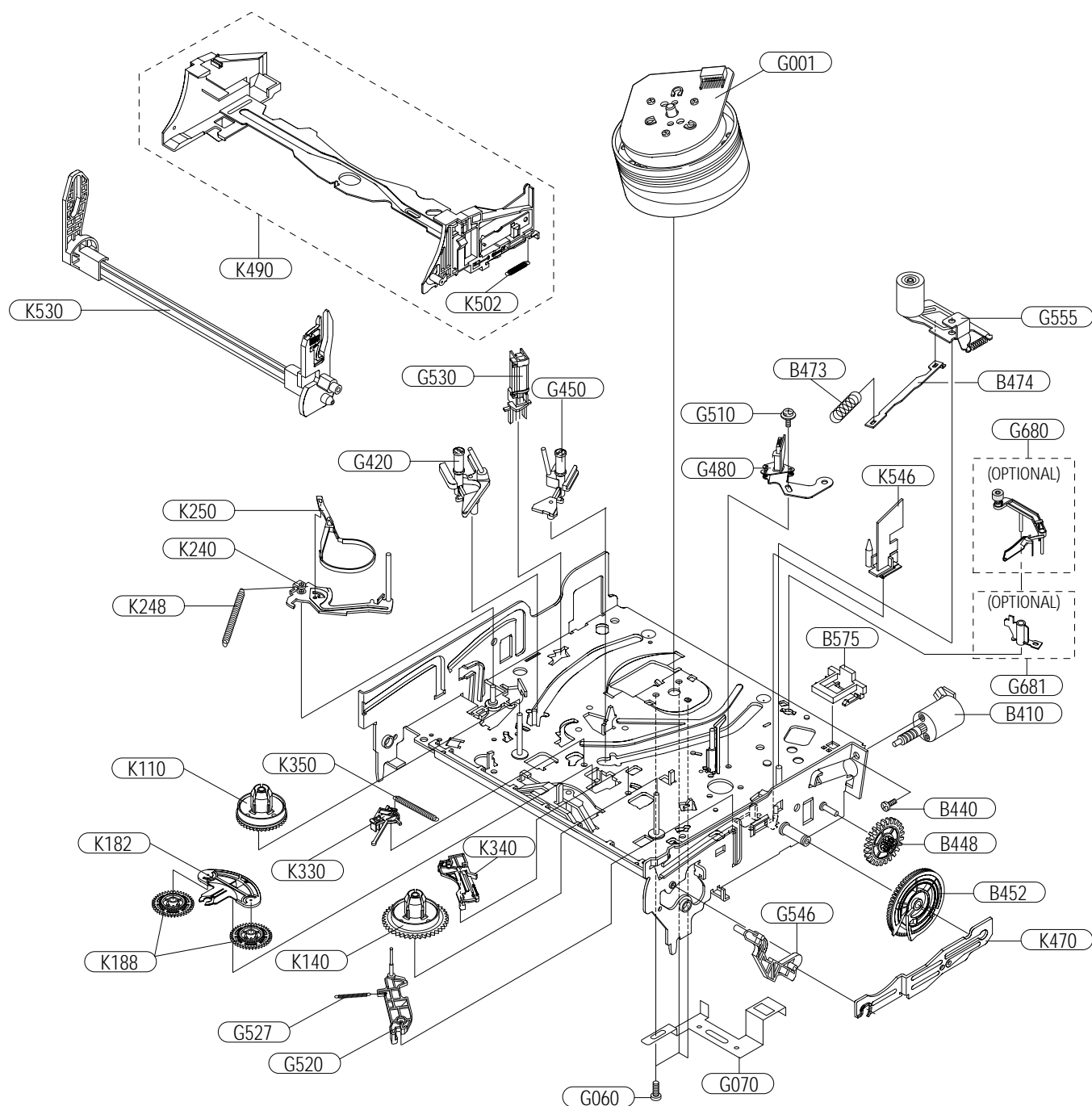


SV-445X/245X/445G/245G	SV-441X/241X/441G/241G	UT01
		

Loc. No	Parts No.	Description ; Specification	Remark
1	Refer to table below	ASSY-PANEL FRONT	
21	Refer to table below	DOOR-CASSETTE	
22	AC61-62032A	SPRING-MASK;X-9,-,SUS,-,4.4,-,SV-C130	
55	AC61-30164D	LOCKER-CODO ASSY L,-,LUCEL+SECC+SUS,-,-,	OPTIONAL
56	AC61-30164C	LOCKER-CODO ASSY R,-,LUCEL+SECC+SUS,-,BL	OPTIONAL
101	AC64-00400A	CABINET TOP;-SV-2300X,-,PCM(SECC)-,-SV-2	
102	AC63-00015A	COVER-BOTTOM;-,-SECC,-,T;0.5,SECC T0.5,-,	
153	AC60-12126A	SCREW-BH;-,-BH,-,4*12,FE,FZY,-,-,-	
155	AC60-12134A	SCREW-TAP BH;-,-BH,-,2-4X16,-,FE	
157	AC60-10063A	SCREW-TAPTITE;BH,+,-,M3,L12,ZPC3,SWRCH18	
200	AC39-10019A	POWER CORD;KKP-419C,H03VVH2-F,VDE/KEMA-K	
CN3A1S	3809-001206	CABLE-FLAT;30V,-20to+80C,140mm,6P,1.25mm	
CN602S	3809-001111	CABLE-FLAT;30V,80C,130mm,7P,1.25mm,UL289	
LD601A	AC61-21009A	HOLDER-LED;-,-POM(M90-44)-,-BLK,-,X-9	
S601A	AC61-21008A	HOLDER-SENSOR;-,-POM(M90-44)-,-BLK,-,X-9	
S602A	AC61-21008A	HOLDER-SENSOR;-,-POM(M90-44)-,-BLK,-,X-9	
TM401B	AC61-00149A	CHASSIS-ASSY;SV-443F,HIPS94HB,T2,-,-,2CA	
UT01	Refer to table below	REMOCON-ASSY	

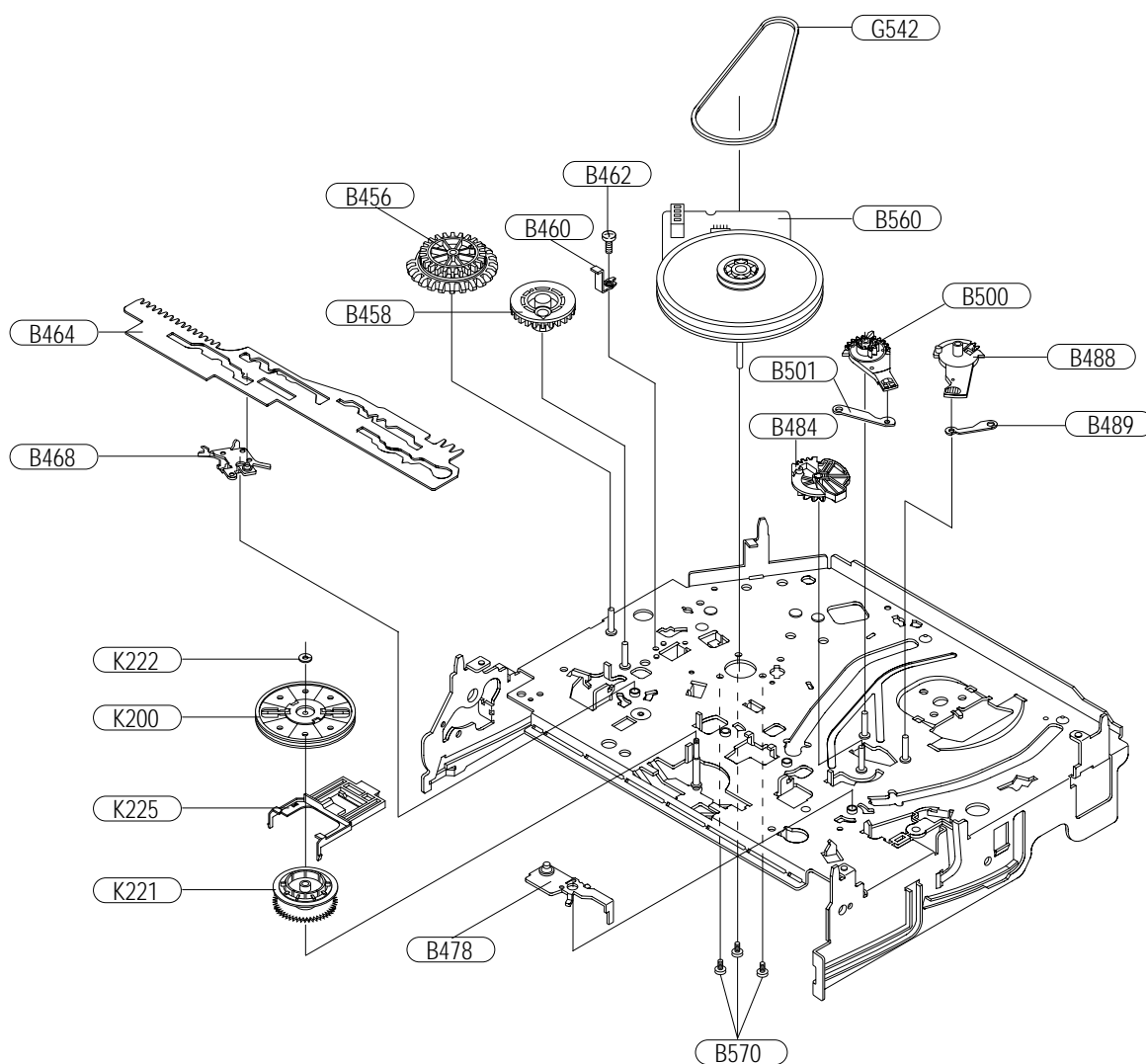
COUNTRY	MODELS	1	21	UT01
Spain	SV-441X	AC97-01294A	AC64-00572V	AC59-00049C
	SV-245X	AC97-01365C	AC64-00683J	AC59-00049C
	SV-241X	AC97-01294B	AC64-00572E	AC59-00049C
Portugal	SV-441X	AC97-01294A	AC64-00572V	AC59-00049C
	SV-245X	AC97-01365C	AC64-00683J	AC59-00049C
	SV-241X	AC97-01294B	AC64-00572E	AC59-00049C
Greece	SV-445X	AC97-01291C	AC64-00683N	AC59-00049C
	SV-441X	AC97-01294A	AC64-00572V	AC59-00049C
	SV-241X	AC97-01294B	AC64-00572E	AC59-00049C
Cyprus	SV-445X	AC97-01291C	AC64-00683N	AC59-00049C
	SV-441X	AC97-01294A	AC64-00572V	AC59-00049C
	SV-241X	AC97-01294B	AC64-00572E	AC59-00049C
Croatia	SV-445X	AC97-01291C	AC64-00683N	AC59-00049C
	SV-441X	AC97-01294A	AC64-00572V	AC59-00049C
	SV-245X	AC97-01365C	AC64-00683J	AC59-00049C
Slovenia	SV-241X	AC97-01294B	AC64-00572E	AC59-00049C
	SV-445X	AC97-01291C	AC64-00683N	AC59-00049C
	SV-441X	AC97-01294A	AC64-00572V	AC59-00049C
Yugo	SV-245X	AC97-01365C	AC64-00683J	AC59-00049C
	SV-445X	AC97-01291C	AC64-00683N	AC59-00049C
	SV-241G	AC97-01294D	AC64-00721A	AC59-00049C
Hungary	SV-445G	AC97-01291D	AC64-00638B	AC59-00048C
	SV-441G	AC97-01294S	AC64-00572Y	AC59-00049C
	SV-245G	AC97-01365E	AC64-00683L	AC59-00049C
Romania	SV-241G	AC97-01294D	AC64-00721A	AC59-00049C
	SV-445G	AC97-01291D	AC64-00638B	AC59-00048C
	SV-441G	AC97-01294S	AC64-00572Y	AC59-00049C
Czech.	SV-245G	AC97-01365E	AC64-00683L	AC59-00049C
	SV-241G	AC97-01294D	AC64-00721A	AC59-00049C
	SV-445G	AC97-01291D	AC64-00638B	AC59-00048C
Bulgaria/Macedonia	SV-441G	AC97-01294S	AC64-00572Y	AC59-00049C
	SV-245G	AC97-01365E	AC64-00683L	AC59-00049C
	SV-241G	AC97-01294D	AC64-00721A	AC59-00049C
Poland	SV-445G	AC97-01291D	AC64-00638B	AC59-00048C
	SV-441G	AC97-01294S	AC64-00572Y	AC59-00049C
	SV-245G	AC97-01365E	AC64-00683L	AC59-00049C
	SV-241G	AC97-01294D	AC64-00721A	AC59-00049C

3-2 Mechanical Parts (Top Side)



Loc. No	Parts No.	Description ; Specification	Remark
B410	AC31-00012A	MOTOR-LOADING ASSY;-TS-10,-,-,-,-,-,-,-	
B440	AC60-10515A	SCREW-MACHINE;-,-,PH,+,-,M3,L3,ZPC,-,YEL	
B448	AC66-00008A	GEAR-WORM WHEEL;TS-10,POM,0.8,40,-,NAT,3	
B452	AC66-00011A	GEAR-FL CAM;TS-10,POM,0.8,59,-,BLK,48.48	
B473	AC61-00105A	SPRING-PINCH DRIVE;TS-10,SUS304-WPB,-,-,-	
B474	AC61-30180A	PLATE-JOINT;-,-,SECC20/20,T0.8,-,X-9	
B575	AC47-00002A	DAMPER-CAPSTAN;TS-10,POM,-,-,-,BLACK	
G001	AC97-01203A	ASSY-CYLINDER;PALCTS10,4HD	4HEAD
	AC97-01201A	ASSY-CYLINDER;PAL,CTS10,2HD	2HEAD
G060	6006-001092	SCREW-ASS'Y MACH;WS,PH,+,-,M3.0,L6.0,ZPC(Y	
G070	AC61-00161A	PLATE-GROUND DECK;TS-10,SPTE,T0.3,-	
G420	AC66-80142A	SLIDER-SUPPLY ASSY;-,-,X-9(TS),-,-,-,X-9	
G450	AC66-80141A	SLIDER-TAKE UP ASSY;-,-,X-9(TS),-,-,-,X-9	
G480	AC33-00009A	HEAD-ACE ASS'Y;-,-,PPS,TS-10,-,-,-	
G510	6006-001075	SCREW-ASS'Y TAPT;WSP,PH,+,-,M2.6,L5.0,ZPC(
G520	AC66-00033A	LEVER-#9 GUIDE ASS'Y;TS-10,-,-,-,-,-,-,-	
G527	AC61-60553A	SPRING-#9 GUIDE;-,-,ES,SUS304-WPB,OD3.1,0.	
G530	AC33-00007A	HEAD-FE;-,-,HVFHPOO43A,-,-,-	
G546	AC66-00005A	LEVER-FL DOOR;TS-10,POM,-,-,-,-,NAT,-	
G555	AC66-00032A	LEVER-UNIT PINCH ASS'Y;TS-10,-,-,-,-,-,-,-	
G680	AC66-00046A	LEVER-HEAD CLEANER ASS'Y;TS-10,POM+URETH	(OPTIONAL)
G681	AC61-50686A	SLEEVE-HEAD CLEANER;-,-,POM,-,-,-,-,-,TS	(OPTIONAL)
K110	AC66-10267A	REEL-DISK S;X-9,POM,-,-,-,-,-,-,-	
K140	AC66-10268A	REEL-DISK T;X-9,POM,-,-,-,-,-,-,-	
K182	AC66-30524A	LEVER-IDLER;-,-,POM,-,-,-,-,-,-,-	
K188	AC66-00039A	GEAR-IDLE;TS-10,PET K3372,0.5,-,-,NTR,28	
K240	AC66-00035A	LEVER-TENSION ASS'Y;TS-10,SECC E20/20+SU	
K248	AC61-00107A	SPRING-TENSION LEVER;TS-10,SUS304-WPB,-,-	
K250	AC69-00104A	BAND-BRAKE ASS'Y;TS-10,-,-,-,-,-,-,-	
K330	AC66-30550A	LEVER-S.BRAKE ASSY;-,-,POM+SUS,-,-,-,X-9	
K340	AC66-30549A	LEVER-T.BRAKE ASSY;-,-,POM+SUS,-,-,-,X-9	
K350	AC61-00106A	SPRING-BRAKE;TS-10,SUS304-WPB,-,-,-,-,-	
K470	AC66-00020A	SLIDER-FL DRIVE;TS-10,SECC E20/20,1.0,-,-	
K490	AC61-00120A	HOLDER-FL CASS. ASS'Y;TS-10,-,-,-,-,-,-,-	
K502	AC61-60561A	SPRING-FL.LEVER-LR;-,-,ES,SUS304 WPB,PI2.7	
K530	AC66-00034A	LEVER-FL ARM ASS'Y;TS-10,-,-,-,-,-,-,-	
K546	AC61-50658A	GUIDE-CASS. DOOR;X-9,POM,-,-,NTR,-,-,-	

3-3 Mechanical Parts (Bottom Side)



Loc. No	Parts No.	Description ; Specification	Remark
B456	AC66-00009A	GEAR-JOINT 1;TS-10,POM,1.5,17.5(22),-,NA	
B458	AC66-00012A	GEAR-JOINT 2;TS-10,POM,1.0,23,-,BLK,24.6	
B460	AC61-00090A	BRACKET-GEAR;TS-10,0.8,-,-	
B462	AC60-10517A	SCREW-TAP TITE;-;PH,+,-,M2.6,L5,ZPC,-,YE	
B464	AC66-00019A	SLIDER-CAM;TS-10,SECC E20/20,1.2,-,-,-,-	
B468	AC66-00017A	LEVER-PINCH DRIVE;TS-10,SECC E20/20,1.0	
B478	AC66-00016A	LEVER-TENSION DRIVE;TS-10,SECC E20/20,1	
B484	AC66-00030A	GEAR-LOADING DR. ASS'Y;TS-10,POM+SWPB,-,	
B488	AC66-00023A	LEVER-S LOADING;TS-10,POM,-,-,-,-,NAT,-	
B489	AC66-00021A	LINK-LOADING S;TS-10,SECC E20/20,0.8,-,-	
B500	AC66-00024A	LEVER-T LOADING;TS-10,POM,-,-,-,-,NAT,-	
B501	AC66-00022A	LINK-LOADING T;TS-10,SECC E20/20,0.8,-,-	
B560	AC31-00010A	MOTOR-CAPSTAN;-;SANKYO,-,-	
B570	AC60-10514A	SCREW-CAPSTAN;-;PH,+,-,M2.6,L6,-	
G542	AC66-60051A	BELT-PULLEY;-;5CM-70,2 * 2,-,71.3,-,X-9	
K200	AC61-21012A	HOLDER-CLUTCH ASSY;-,-,-,-,-,X-9	
K221	AC66-20581A	GEAR-CENTER ASSY;-;POM,M=0.5,-,HIGHT T.,	
K222	AC60-30306A	WASHER-SLIT;-,-,ID2.1,OD5.0,T0.5,-,POLYS	
K225	AC66-00006A	LEVER-UP DOWN;TS-10,POM,-,-,-,-,NAT,-	

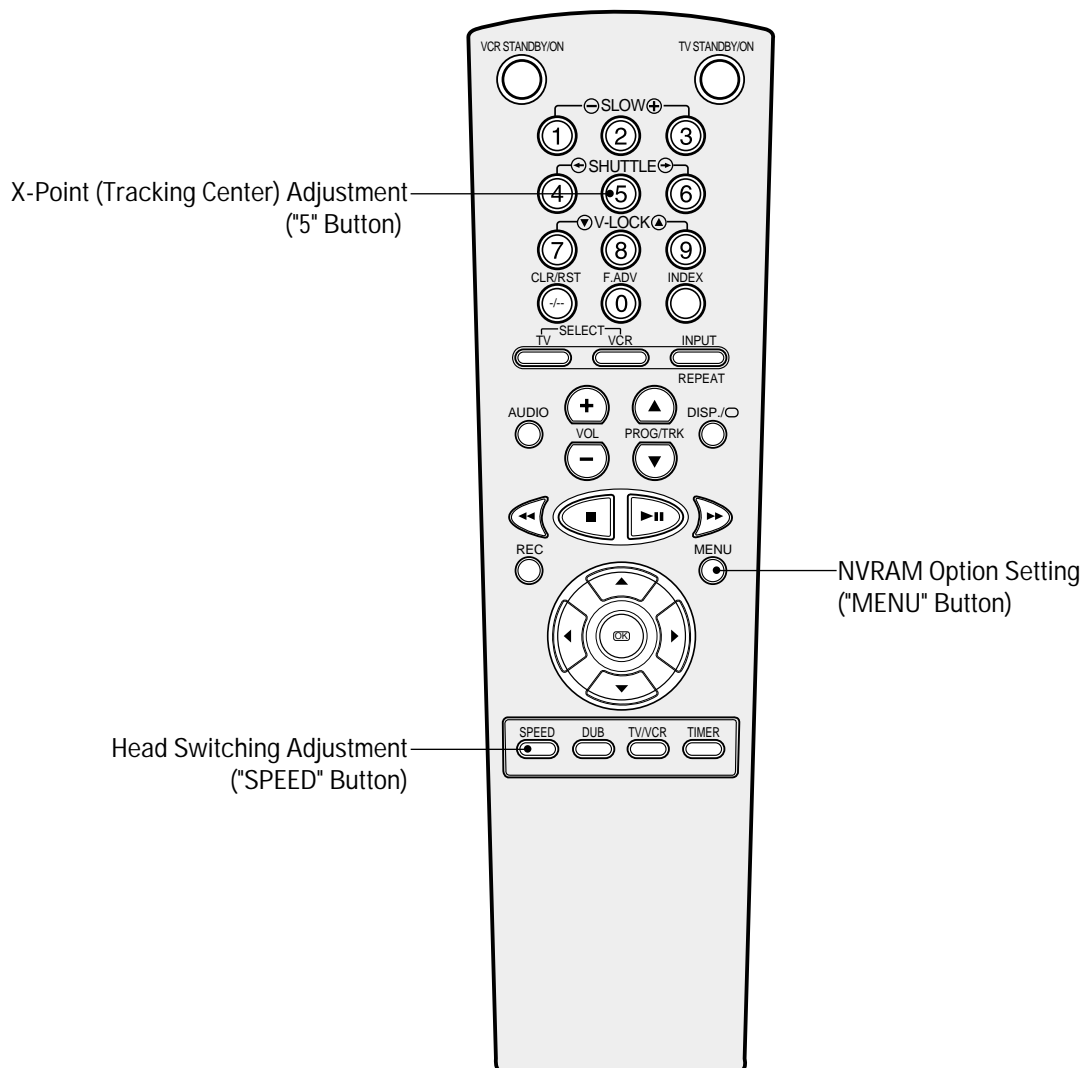
MEMO

2. Alignment and Adjustment

2-1 Reference

- 1) X-Point (Tracking center) adjustment, "Head switching adjustment" and "NVRAM option setting" can be adjusted with remote control.
- 2) When replacing the Micom (IC601) and NVRAM (IC605 ; EEPROM) be sure to adjust the "Head switching adjustment" and "NVRAM option setting".
- 3) When replacing the cylinder ass'y, be sure to adjust the "X-Point" and "Head switching adjustment".
- 4) Among Samsung VCR remote control used for adjustment as a accessory, only the remote control that has figures buttons (0 ~ 9) is available for all adjustment regardless of chassis.
- 5) How to adjustment.
 - Press the "SW718" button on Main PCB to set the adjustment mode.
 - If the corresponding adjustment button is pressed, the adjustment is performed automatically.
 - If the adjustment is completed, be sure to turn the power off.

2-1-1 Location of adjustment button of remote control



Remote Control for adjustment is not supplied as a Service Jig.

Fig. 2-1

2-1-2 SW718 (TEST) location for adjustment mode setting

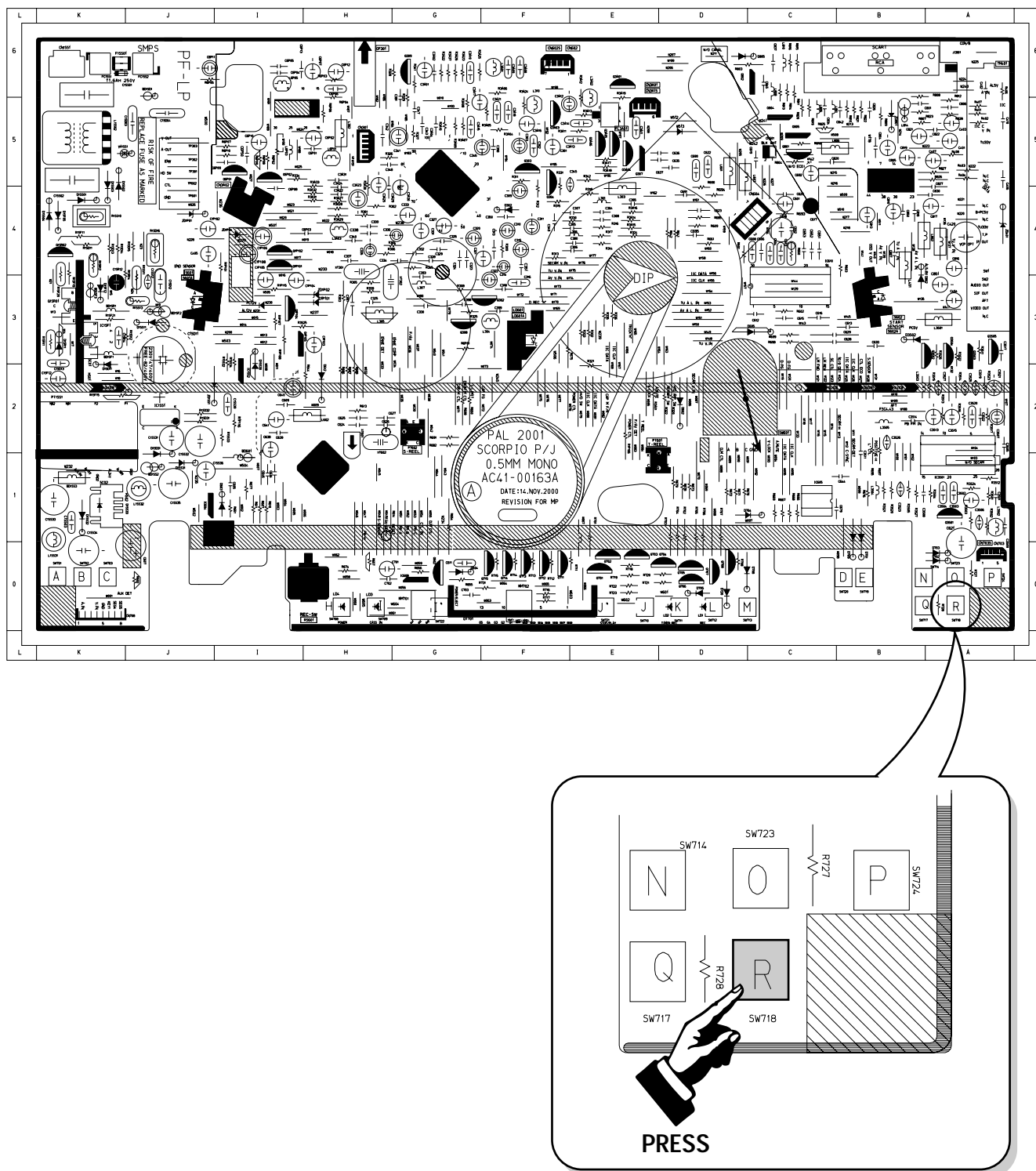


Fig. 2-2 Main PCB (Top View)

2-2 Mechanical Adjustment

Note : Refer to the Mechanical Manual “TS-10 (AC68-01405A)” for the adjustment and confirmation of ass’y full deck.

2-2-1 The number and position of test point

Test point :	TP601 (Control pulse)	TP301 (Envelope)
	TP602 (H'D S/W -Trigger)	TP302 (Audio output)
		TP303 (Video output)

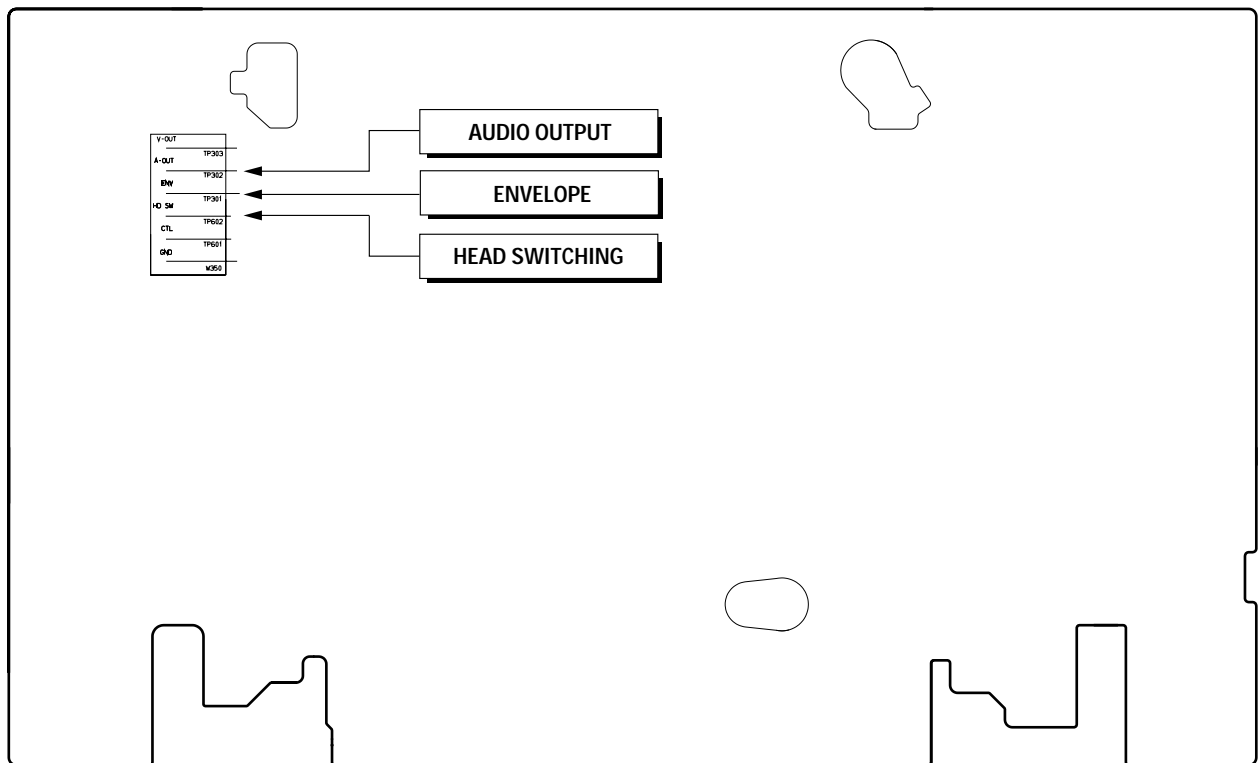


Fig. 2-3 Location of Test point (Main PCB-Top View)

2-2-2 ACE Head Position (X-Point) Adjustment (See the 2-2-1(d) ACE Head Position (X-Point) Adjustment on page 2-2 of the Mechanical Manual)

- 1) Playback the alignment tape (Color bar).
- 2) Press the “SW718” button on Main PCB to set the adjustment mode. (See Fig. 2-2)
- 3) Press the “5” button of remote control then adjustment is operated automatically. (See Fig. 2-1)
- 4) Connect the CH-1 probe to TP301 (Envelope) the CH-2 probe to TP602 (H'D switching pulse) and then trigger to CH-1.
- 5) Insert the (-) driver into the X-Point adjustment hole and adjust it so that envelope waveform is maximum.
- 6) Turn the Power off.

2-3 Head Switching Point Adjustment

- 1) Playback the alignment tape.
- 2) Press the "SW718" button on Main PCB to set the adjustment mode. (See Fig. 2-2)
- 3) Press the "SPEED" button of remote control then adjustment is operated automatically. (See Fig. 2-1)
- 4) Turn the Power off.

2-4 NVRAM Option Setting

- 1) NVRAM Option is adjusted at production line basically.
- 2) In case Micom (IC601) and NVRAM (IC605 ; EEPROM) is replaced, be sure to set the corresponding option number of the repaired model. (If the option is not set, the unit is not operated.)

- 1) Press the "SW718" button on Main PCB to set the adjustment mode. (See Fig. 2-2)
- 2) Press the "MENU" button on the remote control about 5 seconds then option setting display is appeared. (See Fig. 2-4)
- 3) Select the option number (See Table 2-1) of corresponding model with "CURSOR" button on the remote control.
- 4) If selecting the option number is completed, press the "OK" button of remote control.
(If "OK" button is pressed, the selected number is changes reversed color. ; See Fig. 2-4)
- 5) Press the "MENU" button of remote control again to store the option number.
("PLEASE WAIT" is displayed for a second as shown Fig. 2-5 and this setting is completed.)
- 6) Turn the Power off.

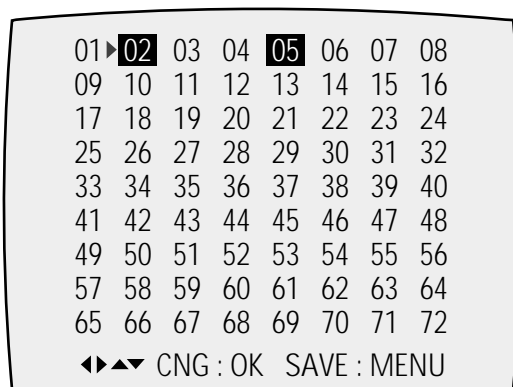


Fig. 2-4

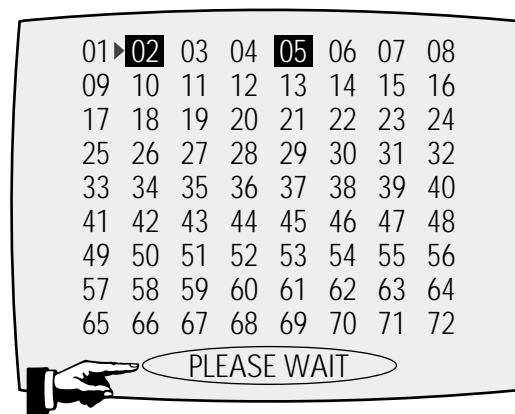


Fig. 2-5

<Table 2-1 NVRAM Option Number>

COUNTRY	MODELS	OPTION NUMBER
Spain	SV-441X	4, 5, 9, 10, 11, 13, 14, 20, 30, 38, 40, 42, 45, 47, 52, 60, 61, 63
	SV-245X	2, 4, 5, 11, 13, 14, 15, 20, 30, 38, 40, 42, 45, 47, 51, 60, 61, 63
	SV-241X	4, 5, 11, 13, 14, 20, 30, 38, 40, 42, 45, 47, 52, 60, 61, 63
Portugal	SV-441X	4, 5, 9, 10, 11, 13, 14, 20, 30, 38, 40, 42, 45, 47, 52, 60, 61, 63
	SV-245X	2, 4, 5, 11, 13, 14, 15, 20, 30, 38, 40, 42, 45, 47, 51, 60, 61, 63
	SV-241X	4, 5, 11, 13, 14, 20, 30, 38, 40, 42, 45, 47, 52, 60, 61, 63
Greece	SV-445X	2, 9, 10, 11, 13, 14, 15, 20, 30, 38, 42, 45, 47, 51, 60, 61, 63
	SV-441X	9, 10, 11, 13, 14, 20, 30, 38, 42, 45, 47, 52, 60, 61, 63
	SV-241X	11, 13, 14, 20, 30, 38, 42, 45, 47, 52, 60, 61, 63
Cyprus	SV-445X	2, 9, 10, 11, 13, 14, 15, 20, 30, 38, 42, 45, 47, 51, 60, 61, 63
	SV-441X	9, 10, 11, 13, 14, 20, 30, 38, 42, 45, 47, 52, 60, 61, 63
	SV-241X	11, 13, 14, 20, 30, 38, 42, 45, 47, 52, 60, 61, 63
Croatia	SV-445X	2, 9, 10, 11, 13, 14, 15, 20, 30, 38, 42, 45, 47, 51, 60, 61, 63
	SV-441X	9, 10, 11, 13, 14, 20, 30, 38, 42, 45, 47, 52, 60, 61, 63
	SV-245X	2, 11, 13, 14, 15, 20, 30, 38, 42, 45, 47, 51, 60, 61, 63
	SV-241X	11, 13, 14, 20, 30, 38, 42, 45, 47, 52, 60, 61, 63
Slovenia	SV-445X	2, 9, 10, 11, 13, 14, 15, 20, 30, 38, 42, 45, 47, 51, 60, 61, 63
	SV-441X	9, 10, 11, 13, 14, 20, 30, 38, 42, 45, 47, 52, 60, 61, 63
	SV-241X	11, 13, 14, 20, 30, 38, 42, 45, 47, 52, 60, 61, 63
Yugo	SV-445X	2, 9, 10, 11, 13, 14, 15, 20, 30, 38, 42, 45, 47, 51, 60, 61, 63
	SV-245X	2, 11, 13, 14, 15, 20, 30, 38, 42, 45, 47, 51, 60, 61, 63
Hungary	SV-445G	2, 9, 10, 11, 13, 14, 15, 20, 30, 32, 33, 34, 36, 38, 42, 45, 47, 51, 60, 61, 63
	SV-441G	9, 10, 11, 13, 14, 20, 30, 33, 34, 36, 38, 42, 45, 47, 52, 60, 61, 63
	SV-245G	2, 11, 13, 14, 15, 20, 30, 33, 34, 36, 38, 42, 45, 47, 51, 60, 61, 63
	SV-241G	11, 13, 14, 20, 30, 33, 34, 36, 38, 42, 45, 47, 52, 60, 61, 63
Romania	SV-445G	2, 9, 10, 11, 13, 14, 15, 20, 30, 32, 33, 34, 36, 38, 42, 45, 47, 51, 60, 61, 63
	SV-441G	9, 10, 11, 13, 14, 20, 30, 33, 34, 36, 38, 42, 45, 47, 52, 60, 61, 63
	SV-245G	2, 11, 13, 14, 15, 20, 30, 33, 34, 36, 38, 42, 45, 47, 51, 60, 61, 63
	SV-241G	11, 13, 14, 20, 30, 33, 34, 36, 38, 42, 45, 47, 52, 60, 61, 63
Czech	SV-445G	2, 9, 10, 11, 13, 14, 15, 20, 30, 32, 33, 34, 36, 38, 42, 45, 47, 51, 60, 61, 63
	SV-441G	9, 10, 11, 13, 14, 20, 30, 33, 34, 36, 38, 42, 45, 47, 52, 60, 61, 63
	SV-245G	2, 11, 13, 14, 15, 20, 30, 33, 34, 36, 38, 42, 45, 47, 51, 60, 61, 63
	SV-241G	11, 13, 14, 20, 30, 33, 34, 36, 38, 42, 45, 47, 52, 60, 61, 63
Bulgaria/ Macedonia	SV-445G	2, 9, 10, 11, 13, 14, 15, 20, 30, 32, 33, 34, 36, 38, 42, 45, 47, 51, 60, 61, 63
	SV-441G	9, 10, 11, 13, 14, 20, 30, 33, 34, 36, 38, 42, 45, 47, 52, 60, 61, 63
	SV-245G	2, 11, 13, 14, 15, 20, 30, 33, 34, 36, 38, 42, 45, 47, 51, 60, 61, 63
	SV-241G	11, 13, 14, 20, 30, 33, 34, 36, 38, 42, 45, 47, 52, 60, 61, 63
Poland	SV-445G	2, 9, 10, 11, 13, 14, 15, 20, 30, 32, 33, 34, 36, 38, 42, 45, 47, 51, 60, 61, 63
	SV-441G	9, 10, 11, 13, 14, 20, 30, 33, 34, 36, 38, 42, 45, 47, 52, 60, 61, 63
	SV-245G	2, 11, 13, 14, 15, 20, 30, 33, 34, 36, 38, 42, 45, 47, 51, 60, 61, 63
	SV-241G	11, 13, 14, 20, 30, 33, 34, 36, 38, 42, 45, 47, 52, 60, 61, 63

MEMO

IMPORTANT SERVICE GUIDE

◆ MODE SWITCH (PROGRAM SWITCH) ASSEMBLY POINT

1) When installing the ass'y deck on the Main PCB, be sure to align the assembly point of mode switch.

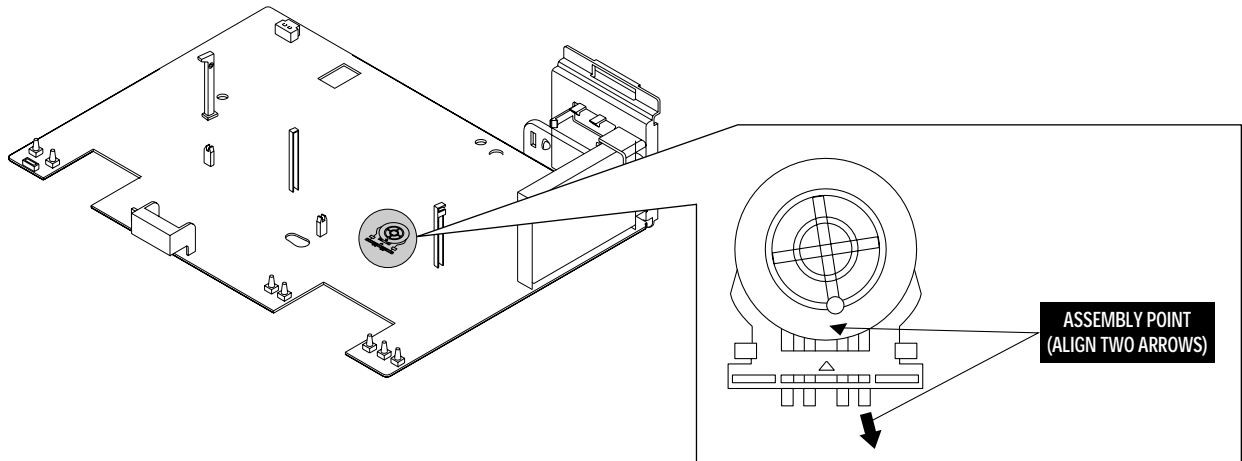


Fig. 1

◆ HOW TO EJECT THE CASSETTE TAPE

(If the unit does not operate on condition that tape is inserted into housing ass'y)

- 1) Turn the Gear Worm ❶ clockwise in the direction of arrow with screw driver. (See Fig. 2)
(Other method ; Remove the screw of Motor Load Ass'y, Separate the Motor Load Ass'y)
- 2) When Slider S, T are approached in the position of unloading, rotate holder Clutch counterclockwise after inserting screw driver in the hole of frame's bottom in order to wind the unwiunded tape. (Refer to Fig. 3)
(If you rotate Gear Worm ❶ continuously when tape is in state of unwinding, you may cause a tape contamination by grease and tape damage. Be sure to wind the unwiunded tape in the state of set horizontally.)
- 3) Rotate Gear Worm ❸ clockwise using screw driver again up to the state of eject mode and then pick out the tape. (Refer to Fig. 2)

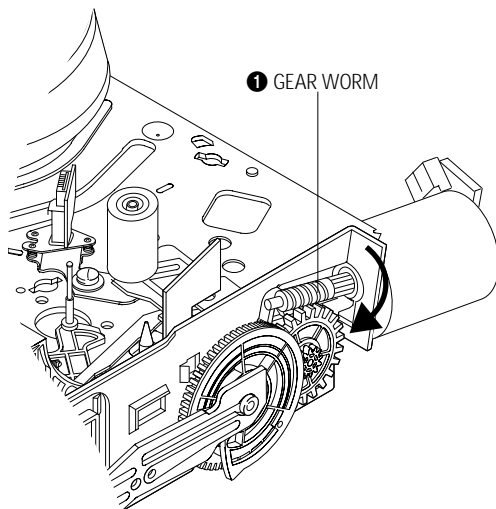


Fig. 2

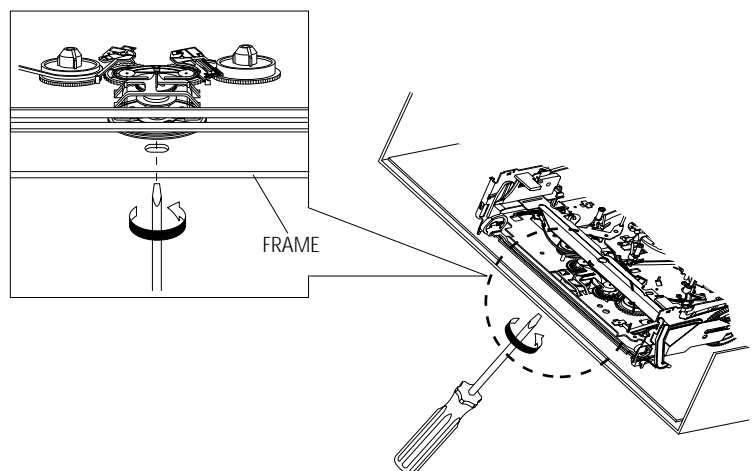


Fig. 3

1. Precautions

1. Be sure that all of the built-in protective devices are replaced. Restore any missing protective shields.
2. When reinstalling the chassis and its assemblies, be sure to restore all protective devices, including : control knobs and compartment covers.
3. Make sure that there are no cabinet openings through which people--particularly children --might insert fingers and contact dangerous voltages. Such openings include the spacing between the picture tube and the cabinet mask, excessively wide cabinet ventilation slots, and improperly fitted back covers.

If the measured resistance is less than 1.0 megohm or greater than 5.2 megohms, an abnormality exists that must be corrected before the unit is returned to the customer.

4. Leakage Current Hot Check (See Fig. 1-1) :
Warning : Do not use an isolation transformer during this test. Use a leakage current tester or a metering system that complies with American National Standards Institute (ANSI C101.1, Leakage Current for Appliances), and Underwriters Laboratories (UL Publication UL1410, 59.7).
5. With the unit completely reassembled, plug the AC line cord directly the power outlet. With the unit's AC switch first in the ON position and then OFF, measure the current between a known earth ground (metal water pipe, conduit, etc.) and all exposed metal parts, including : antennas, handle brackets, metal cabinets, screwheads and control shafts. The current measured should not exceed 0.5 milliamp. Reverse the power-plug prongs in the AC outlet and repeat the test.
6. X-ray Limits :
The picture tube is designed to prohibit X-ray emissions. To ensure continued X-ray protection, replace the picture tube only with one that is the same type as the original.

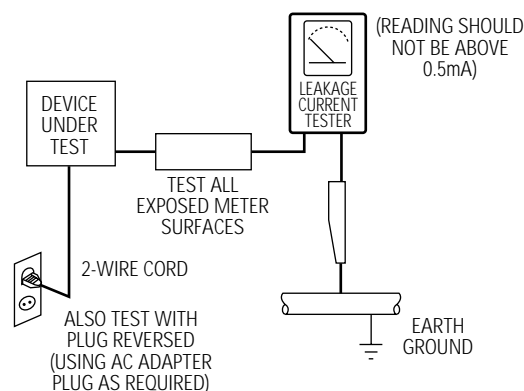




Fig. 1-1 AC Leakage Test

7. Antenna Cold Check :
With the unit's AC plug disconnected from the AC source, connect an electrical jumper across the two AC prongs. Connect one lead of the ohmmeter to an AC prong. Connect the other lead to the coaxial connector.
8. High Voltage Limit :
High voltage must be measured each time servicing is done on the B+, horizontal deflection or high voltage circuits.

Heed the high voltage limits. These include the X-ray protection Specifications Label, and the Product Safety and X-ray Warning Note on the service data schematic.
9. Some semiconductor ("solid state") devices are easily damaged by static electricity. Such components are called Electrostatically Sensitive Devices (ESDs); examples include integrated circuits and some field-effect transistors. The following techniques will reduce the occurrence of component damage caused by static electricity.
10. Immediately before handling any semiconductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground. Alternatively, wear a discharging Wrist-strap device. (Be sure to remove it prior to applying power--this is an electric shock precaution.)

11. High voltage is maintained within specified limits by close-tolerance, safety-related components and adjustments. If the high voltage exceeds the specified limits, check each of the special components.
12. Design Alteration Warning :
Never alter or add to the mechanical or electrical design of this unit. Example : Do not add auxiliary audio or video connectors.
Such alterations might create a safety hazard. Also, any design changes or additions will void the manufacturer's warranty.
13. Hot Chassis Warning :
Some TV receiver chassis are electrically connected directly to one conductor of the AC power cord. If an isolation transformer is not used, these units may be safely serviced only if the AC power plug is inserted so that the chassis is connected to the ground side of the AC source.

To confirm that the AC power plug is inserted correctly, do the following : Using an AC voltmeter, measure the voltage between the chassis and a known earth ground. If the reading is greater than 1.0V, remove the AC power plug, reverse its polarity and reinsert. Re-measure the voltage between the chassis and ground.
14. Some TV chassis are designed to operate with 85 volts AC between chassis and ground, regardless of the AC plug polarity. These units can be safely serviced only if an isolation transformer inserted between the receiver and the power source.
15. Never defeat any of the B+ voltage interlocks.
Do not apply AC power to the unit (or any of its assemblies) unless all solid-state heat sinks are correctly installed.
16. Always connect a test instrument's ground lead to the instrument chassis ground before connecting the positive lead; always remove the instrument's ground lead last.
17. Observe the original lead dress, especially near the following areas : Antenna wiring, sharp edges, and especially the AC and high voltage power supplies. Always inspect for pinched, out-of-place, or frayed wiring. Do not change the spacing between components and the printed circuit board. Check the AC power cord for damage. Make sure that leads and components do not touch thermally hot parts.
18. Picture Tube Implosion Warning :
The picture tube in this receiver employs "integral implosion" protection. To ensure continued implosion protection, make sure that the replacement picture tube is the same as the original.
19. Do not remove, install or handle the picture tube without first putting on shatterproof goggles equipped with side shields. Never handle the picture tube by its neck. Some "in-line" picture tubes are equipped with a permanently attached deflection yoke; do not try to remove such "permanently attached" yokes from the picture tube.
20. Product Safety Notice :
Some electrical and mechanical parts have special safety-related characteristics which might not be obvious from visual inspection. These safety features and the protection they give might be lost if the replacement component differs from the original—even if the replacement is rated for higher voltage, wattage, etc.

Components that are critical for safety are indicated in the circuit diagram by shading, ( or ).
Use replacement components that have the same ratings, especially for flame resistance and dielectric strength specifications. A replacement part that does not have the same safety characteristics as the original might create shock, fire or other hazards.

5. Schematic Diagrams

◆ Block Identification of Main PCB - - - - -	5-2
5-1 S.M.P.S. - - - - -	5-3
5-2 Power Drive - - - - -	5-4
5-3 System Control/Servo/Display - - - - -	5-5
5-4 Audio/Video - - - - -	5-6
5-5 TM - - - - -	5-7
5-6 OSD/PDC - - - - -	5-8
5-7 Input-Output - - - - -	5-9
5-8 Front A/V (SV-445X/245X/445G/245G Only) - - - - -	5-10

Note

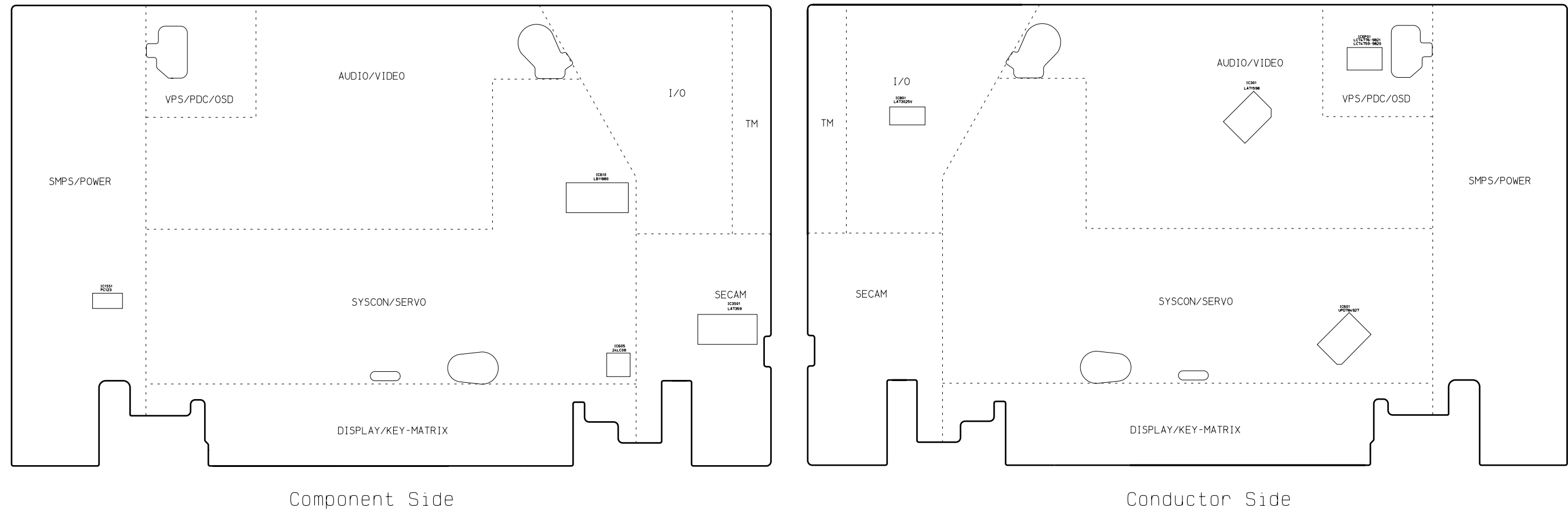
For schematic Diagram
- Resistors are in ohms, 1/8W unless otherwise noted.

Special note :
Most semiconductor devices are electrostatically sensitive and therefore require the special handling techniques described under the "electrostatically sensitive (ES) devices" section of this service manual.

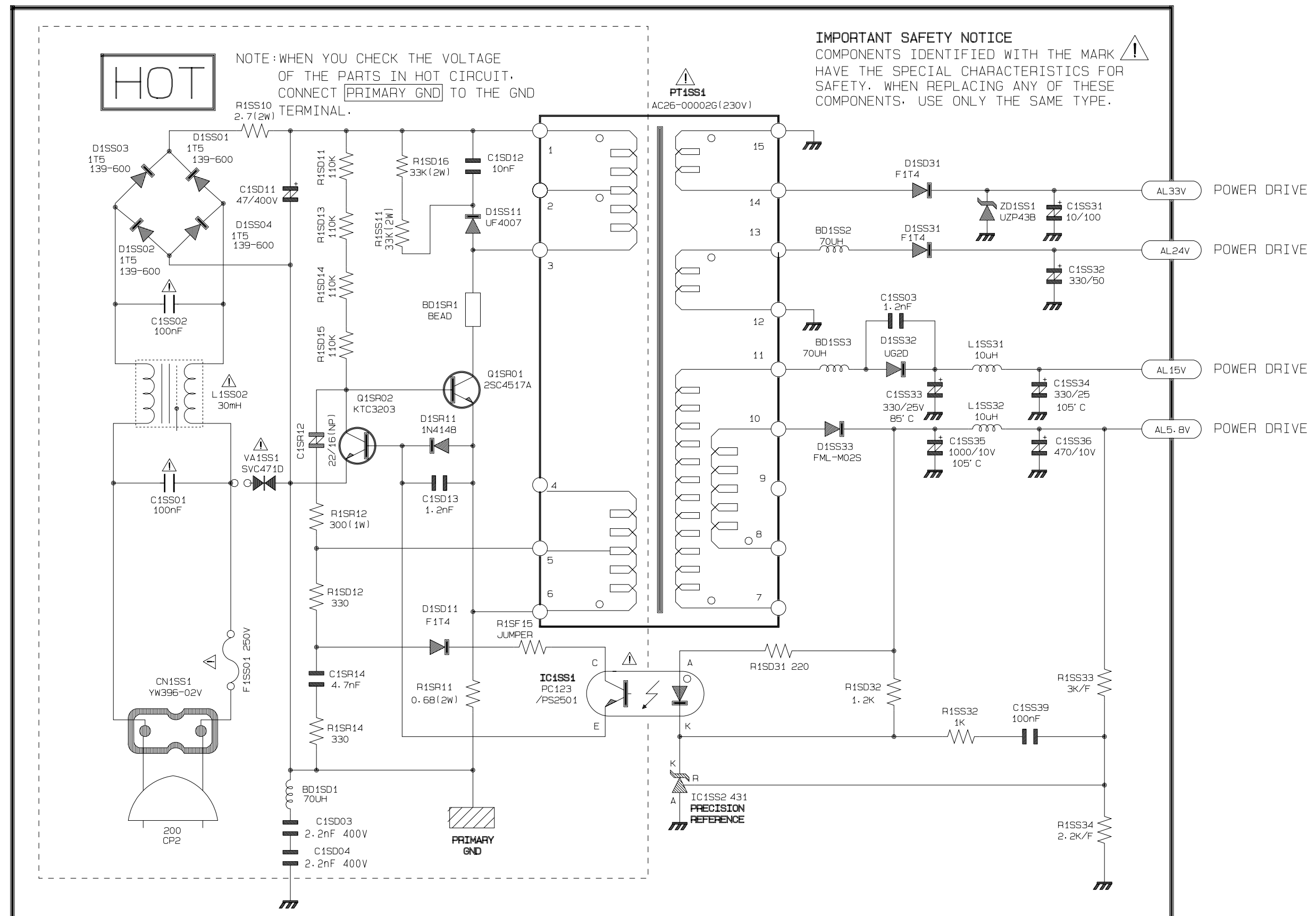
Note :
Do not use the part number shown on this drawing for ordering. The correct part number is shown in the parts list (may be slightly different or amended since this drawing was prepared).

Important safety notices :
Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components. Use only the same type.

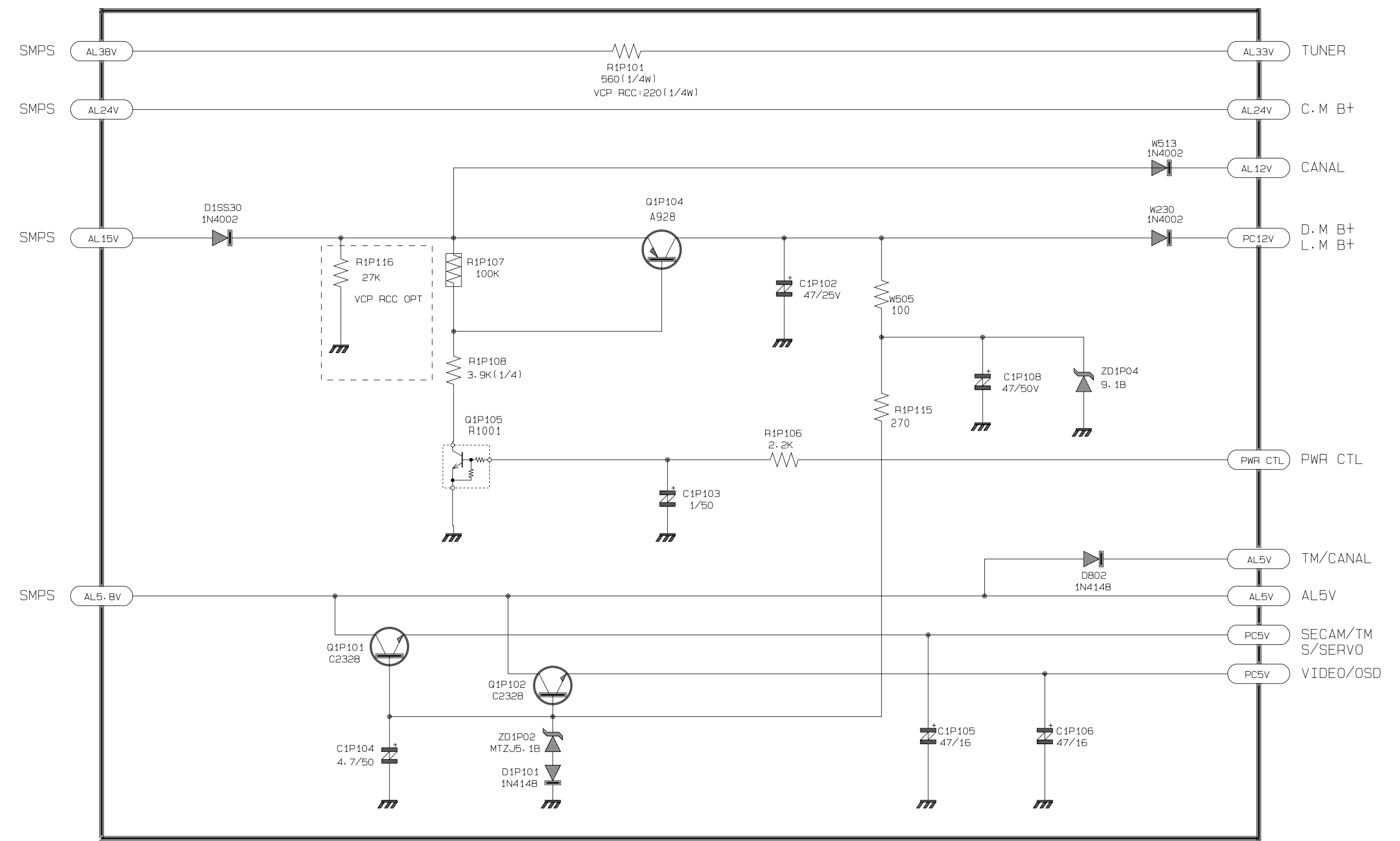
◆ Block Identification of Main PCB



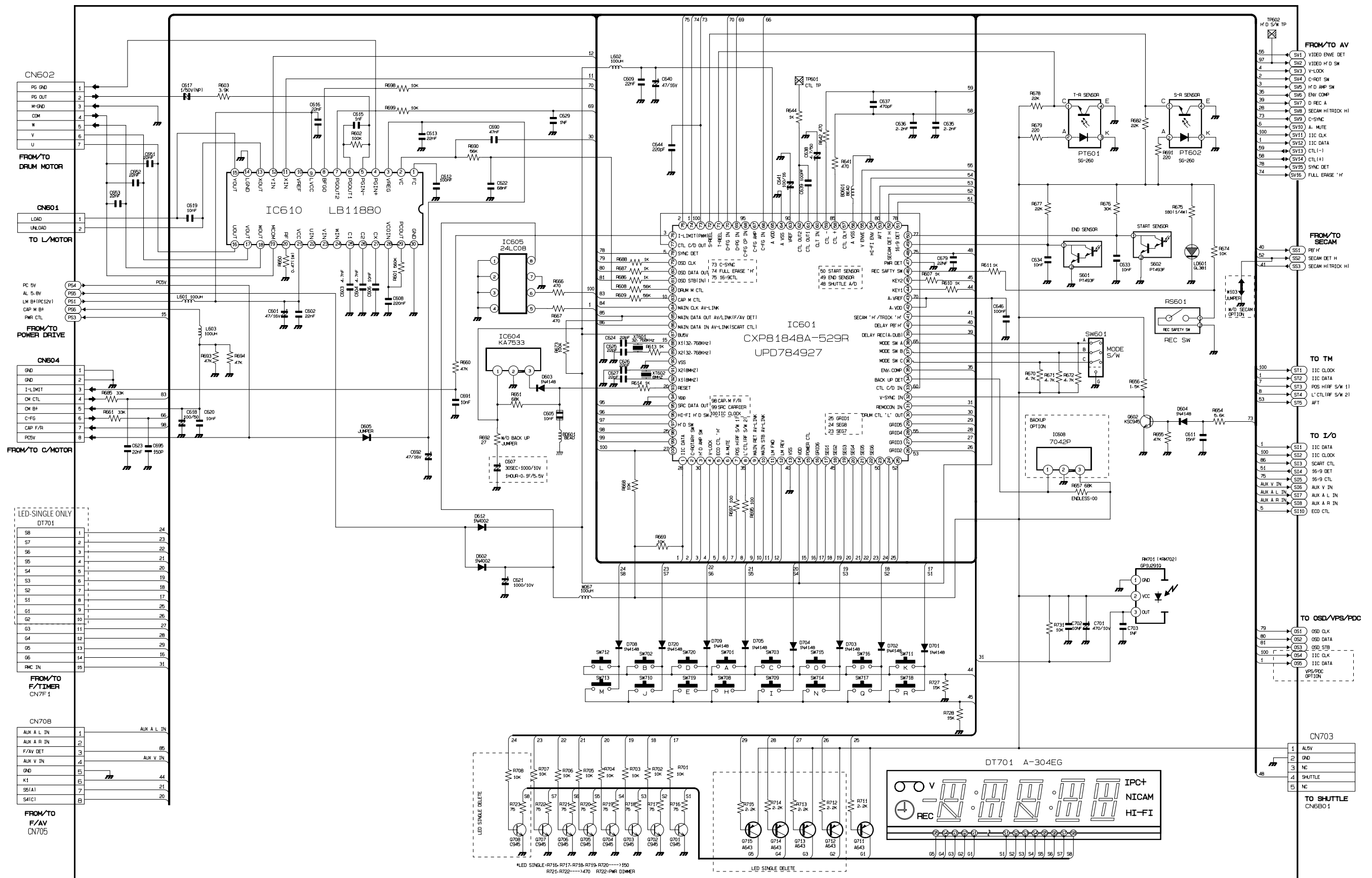
5-1 S.M.P.S.



5-2 Power Drive

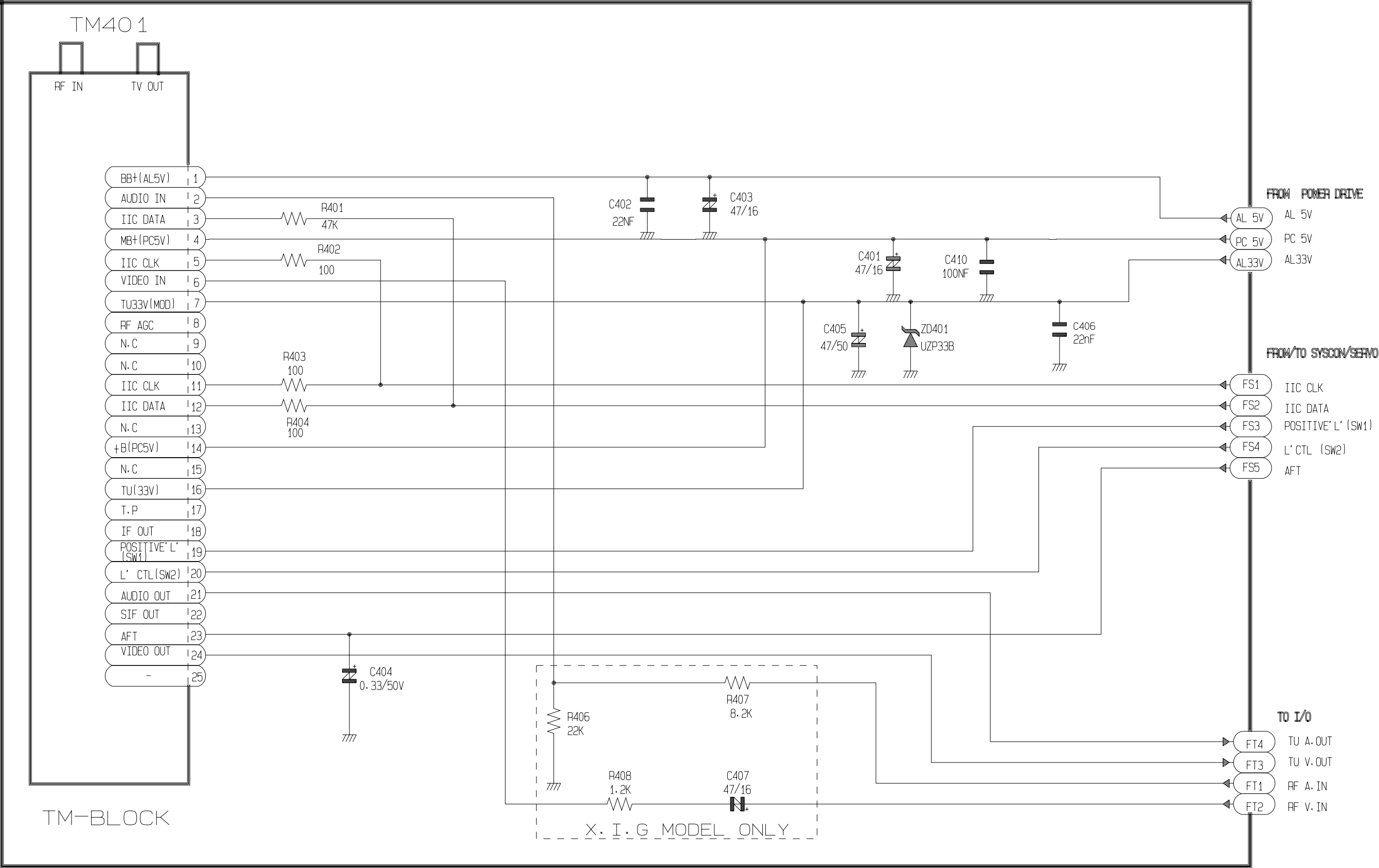


5-3 System Control/Servo/Display

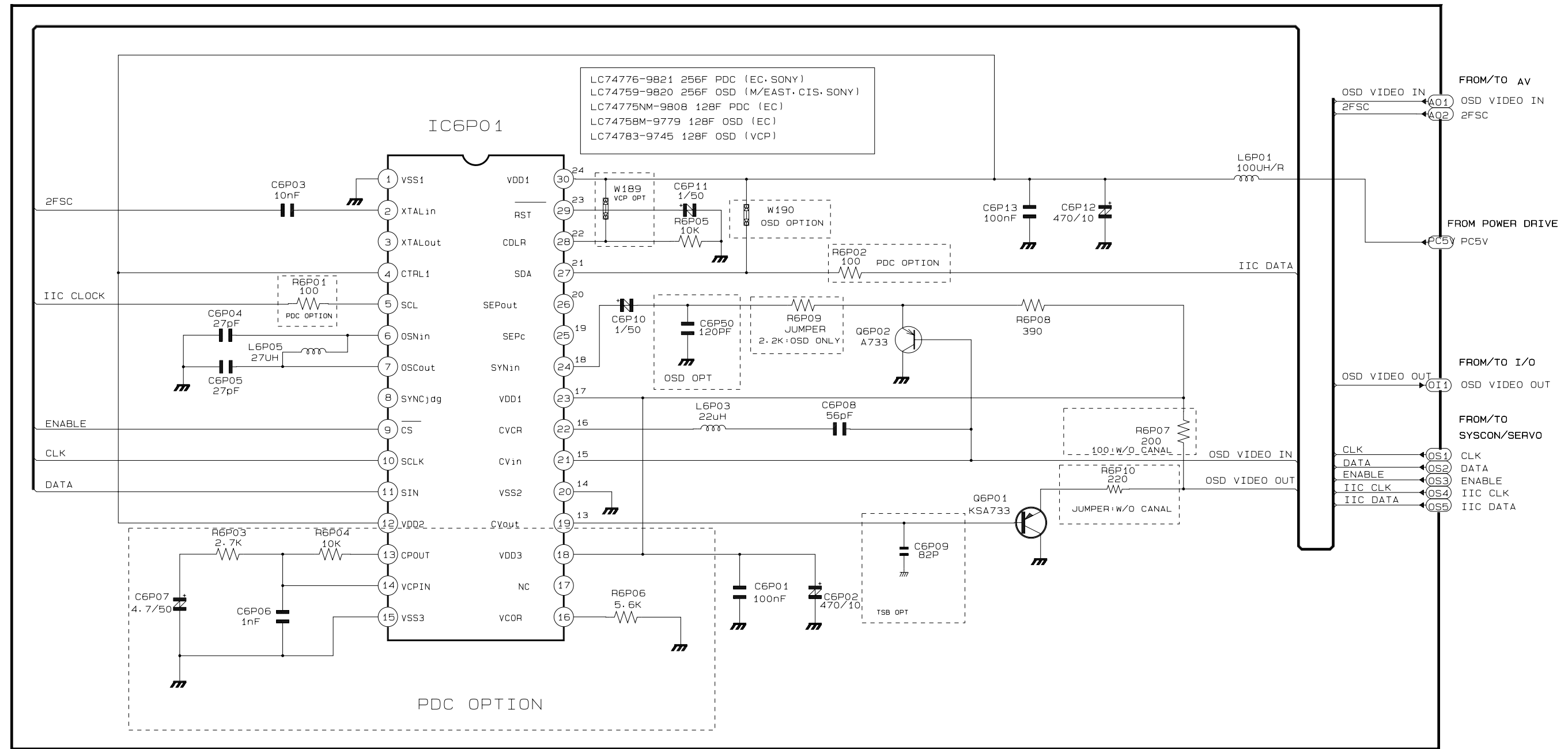




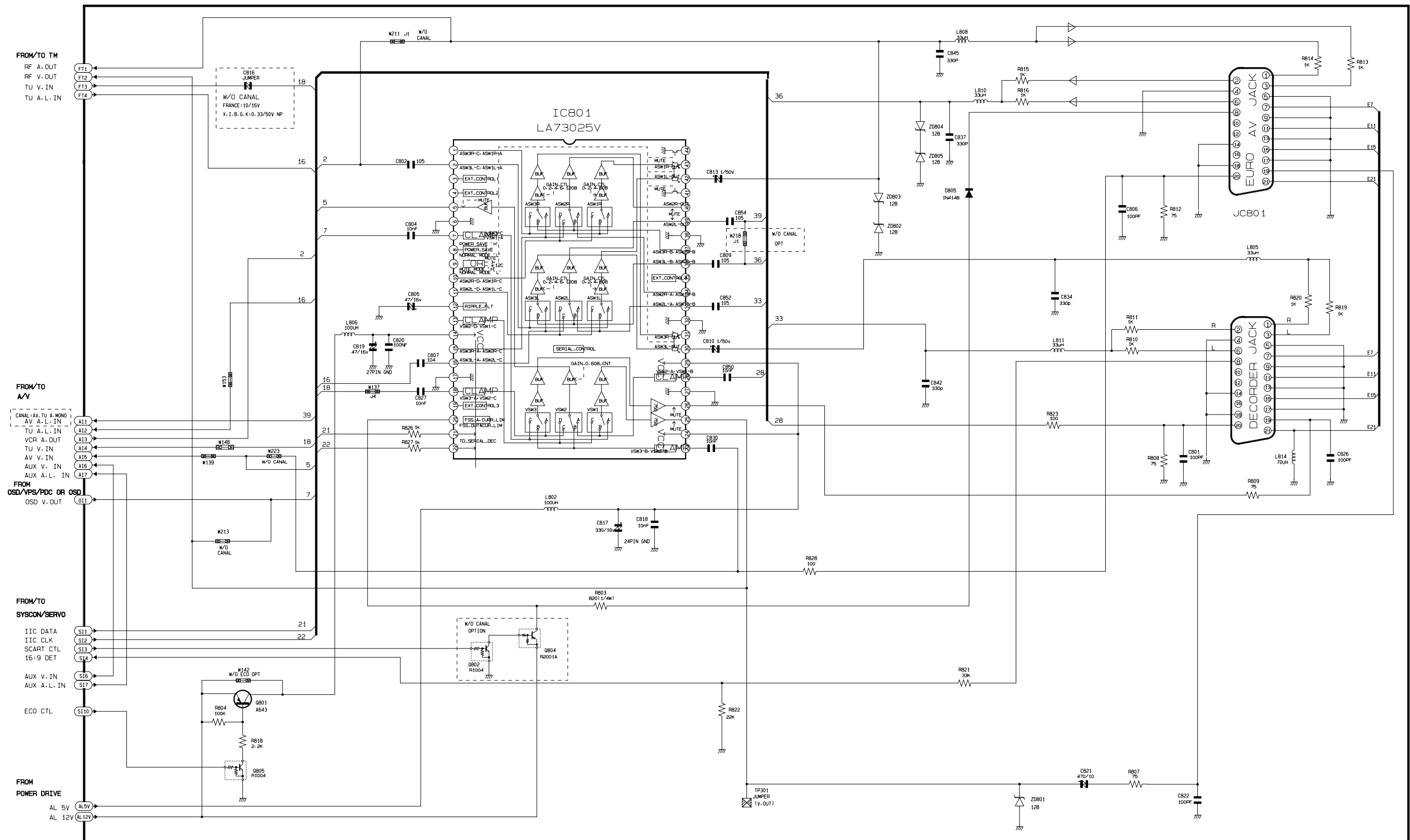
5-5 TM



5-6 OSD/PDC



5-7 Input-Output



5-8 Front A/V (SV-445X/245X/445G/245G Only)

