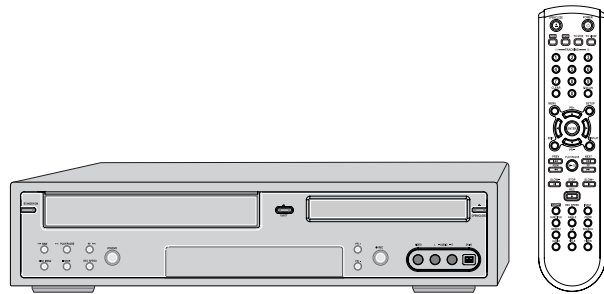


Service Manual

DVD Recorder

MODEL : DF-8100/8150/8200
DF-4100/4150/4200



✓ **Caution :**

In this Manual, some parts can be changed for improving, their performance without notice in the parts list. So, if you need the latest parts information, please refer to PPL(Parts Price List) in Service Information Center (<http://svc.dwe.co.kr>).

CONTENTS

SPECIFICATIONS.....	2
TROUBLE SHOOTING.....	3
WAVEFORMS.....	25
CIRCUIT DIAGRAM.....	28
PCB CIRCUIT BOARD	43
INSTRUMENT DISASSEMBLY	46
ELECTRICAL PARTSLIST	48

SPECIFICATIONS

General

Power requirements	200–240V~, 50/60 Hz
Power consumption	32W
Dimensions (approx.)	16.9 x 3.54 x 14.0 inches (430 x 91 x 354 mm) (w x h x d)
Mass (approx.)	13.5 lbs (6.18 kg)
Operating temperature	41°F to 95°F (5°C to 35°C)
Operating humidity	5% to 90%
Signal system	PAL Colour

Recording

Recording formats	DVD Video Recording, DVD-VIDEO
Recordable discs	DVD+R, DVD+RW
Recordable time	[DVD] Approx. 1 hour (HQ mode), 2 hours (SP mode), 4 hours (EP mode), 6 hours (SLP mode) [VCR] SP: 3 hours (E-180), LP: 6 hours (E-180)

Video recording format

Sampling frequency	27MHz
Compression format	MPEG 2

Audio recording format

Sampling frequency	48kHz
Compression format	MPEG1 Layer2

VCR Specifications

Head system	4 Head Video, 2 Head Hi-Fi helical scan azimuth system
Timer	24-hour display type
Tape speed	SP: 23.39 mm/sec, LP: 11.70 mm/sec
Tape width	12.7 mm
Rewind time	less than 150 seconds (E-180)
Antenna	75 ohms (VHF/UHF)
Channel coverage	VHF: 2-12, 13-20, 74-80 / UHF: 21-69 / CATV: 1-41
Frequency range	20Hz to 20kHz
Video S/N	Over 43 dB (Standard recording)
Audio S/N	Over 65 dB (Hi-Fi), Over 40 dB (Mono)
Resolution	Over 240 lines (Standard recording)

DVD Specifications

Laser system	Semiconductor laser, wavelength 650 nm
Frequency response	DVD (PCM 48 kHz): 8 Hz to 22 kHz, CD: 8 Hz to 20 kHz
Video S/N	More than 60 dB
Audio S/N	More than 90 dB
Harmonic distortion	Less than 0.01%
Dynamic range	More than 90 dB
Resolution	Over 500 lines (HQ Recording)

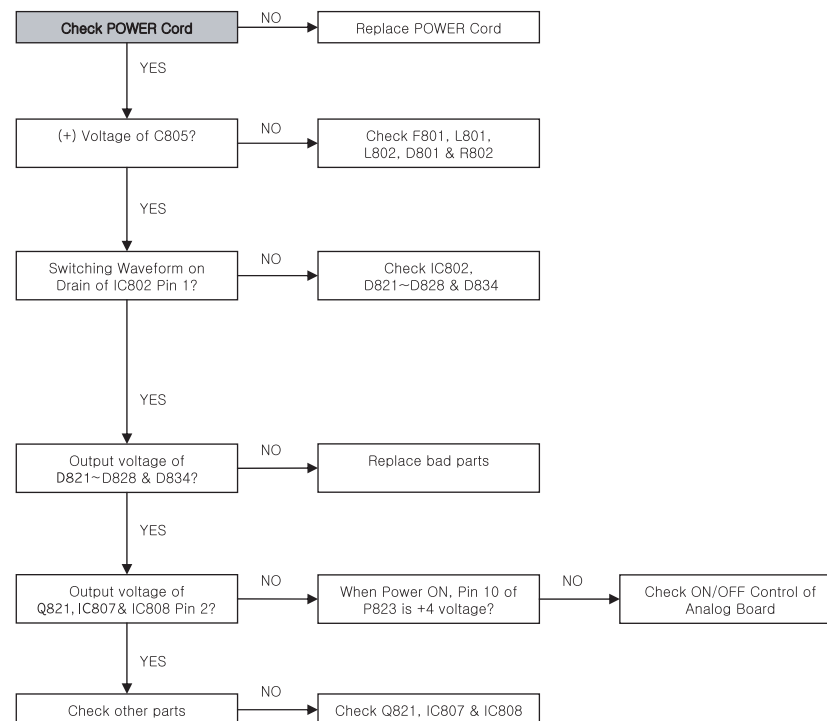
Inputs

Antenna In/Out	U/V-mixed; 75 Ω unbalanced
Video In	1.0 Vp-p, unbalanced
Audio In	-8.8 dBm
DV In	4 pin (i.LINK/IEEE 1394 standard)

TROUBLESHOOTING

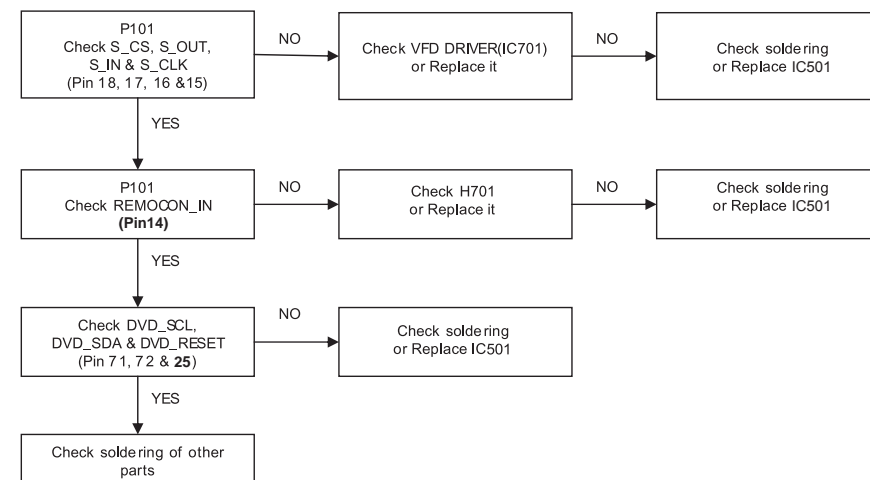
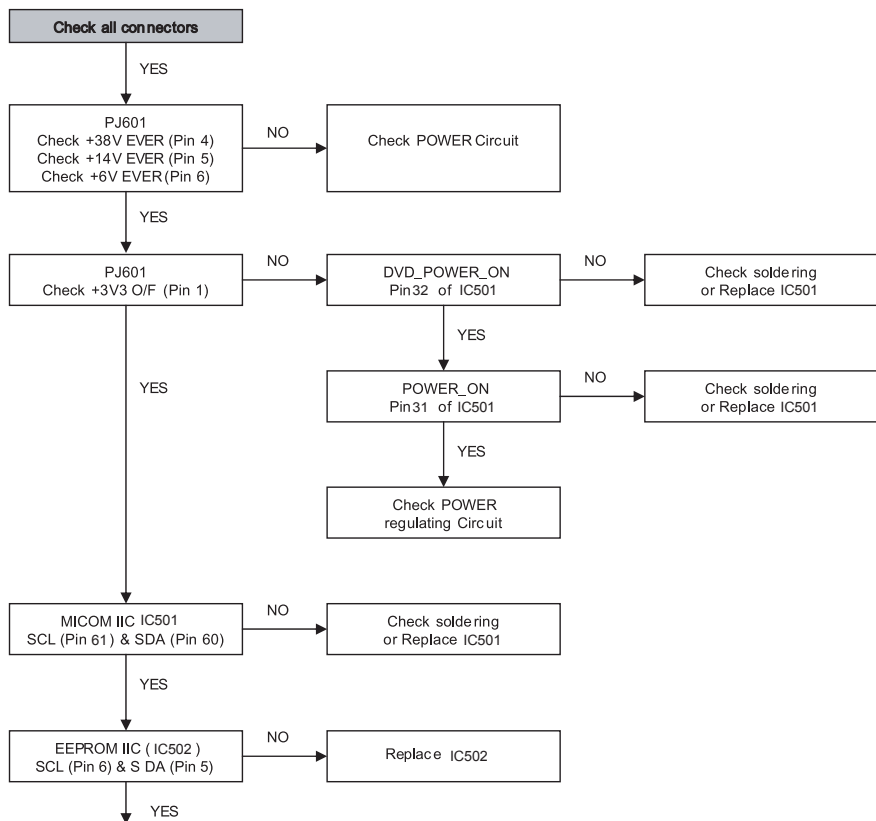
1. POWER CIRCUIT

1. No output voltage of Power Circuit



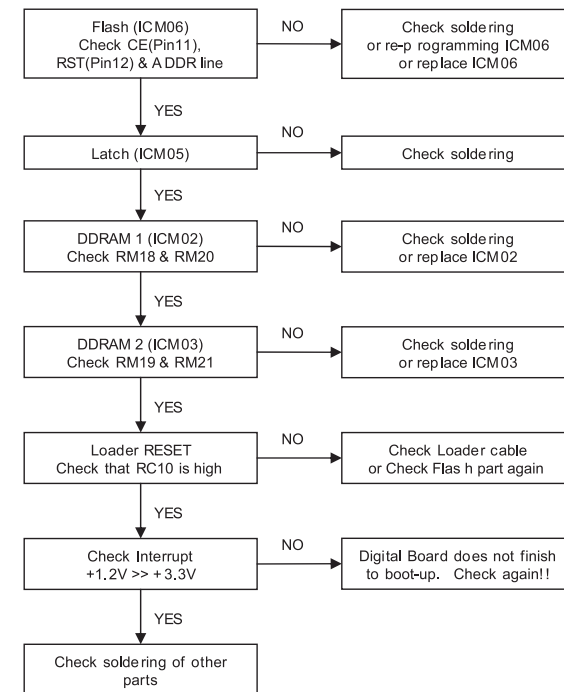
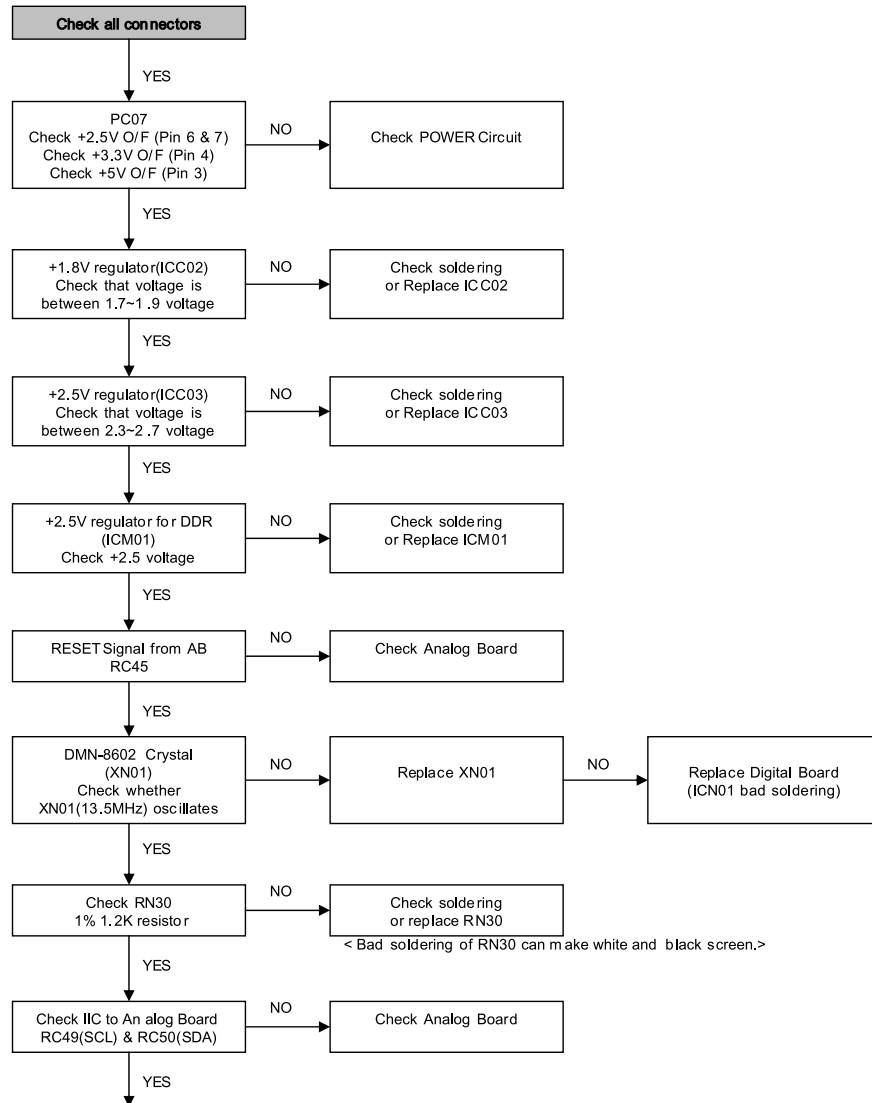
2. SYSTEM CIRCUIT

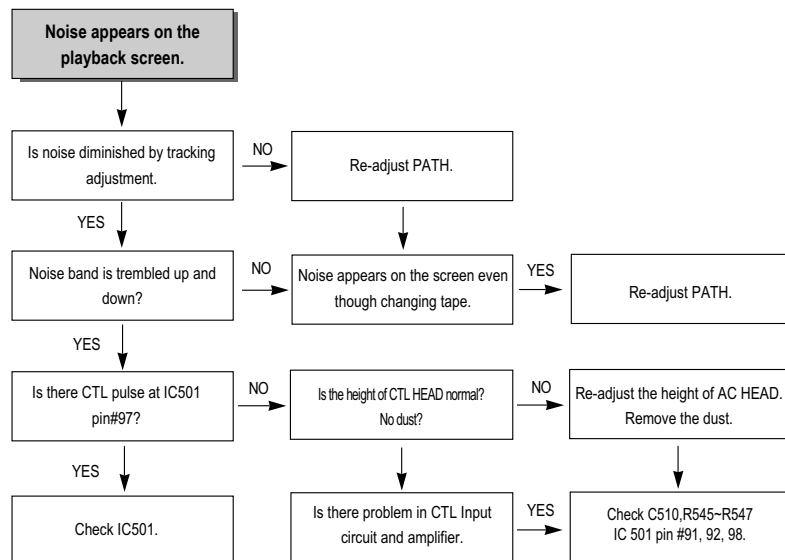
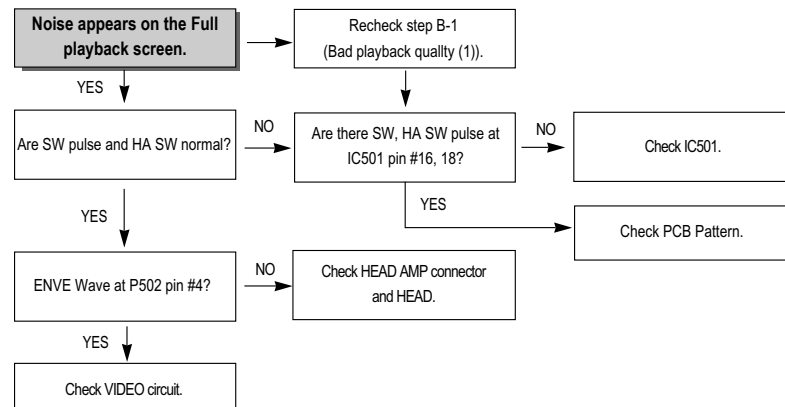
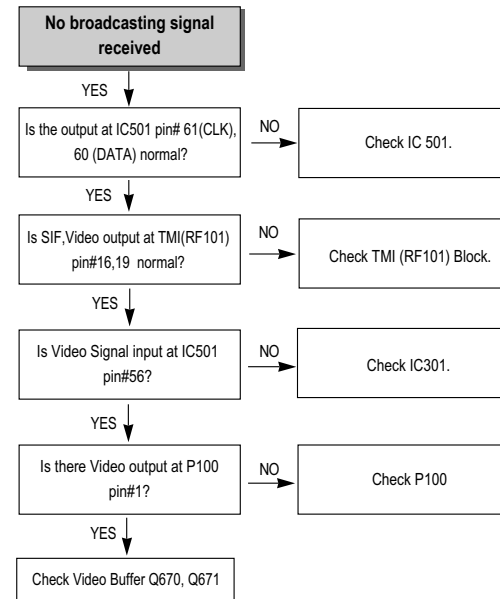
A. Analog Board

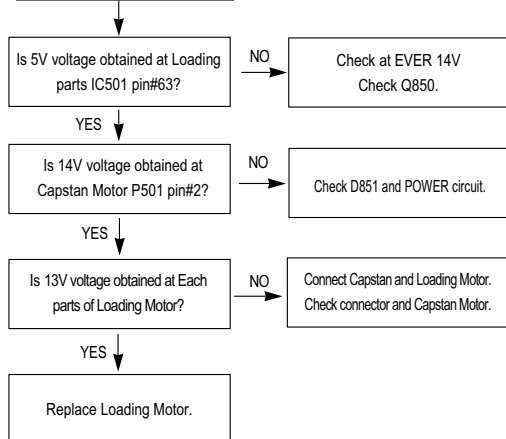
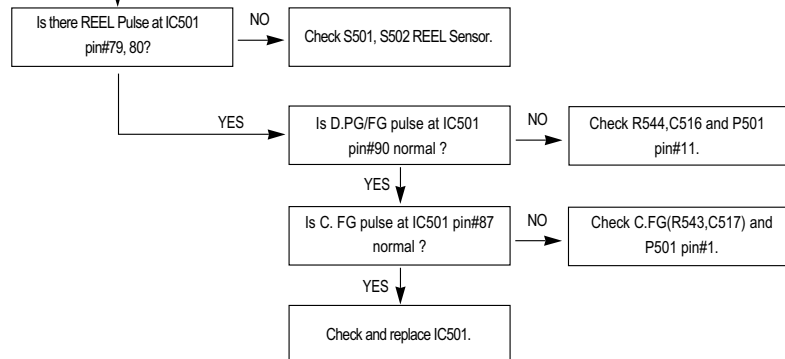
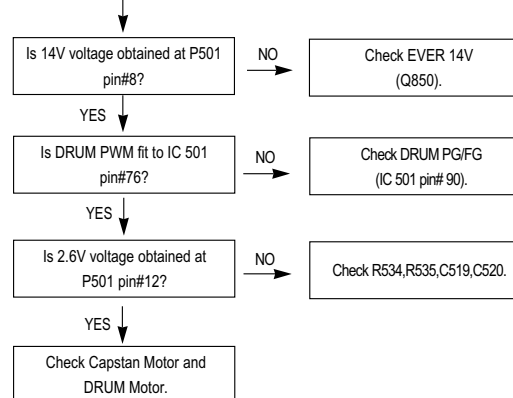
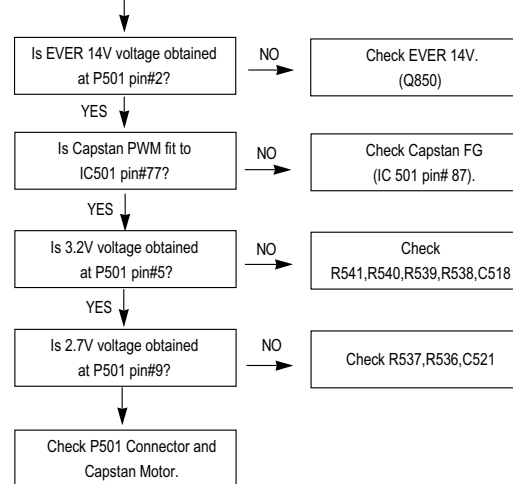


※ Make sure that This model is for *with DV* or *without DV*,
or it will make a crash to Digital Board on boot-up.
 ※ With DV : R642=0
 Without DV : R643=0

B. Digital Board

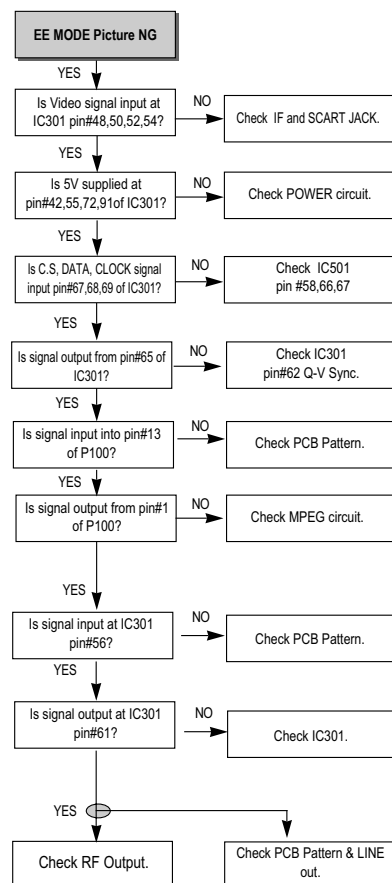


C-1. Bad playback quality (1)**C-2. Bad playback quality (2)****D. No broadcasting signal received**

E. No CASSETTE Loading**Cassette tape isn't inserted.****F. AUTO STOP in Playback mode****VCR stops automatically in playback mode.****G. DRUM Motor stops****DRUM Motor stops.****H. CAPSTAN doesn't rotate****CAPSTAN doesn't rotate.**

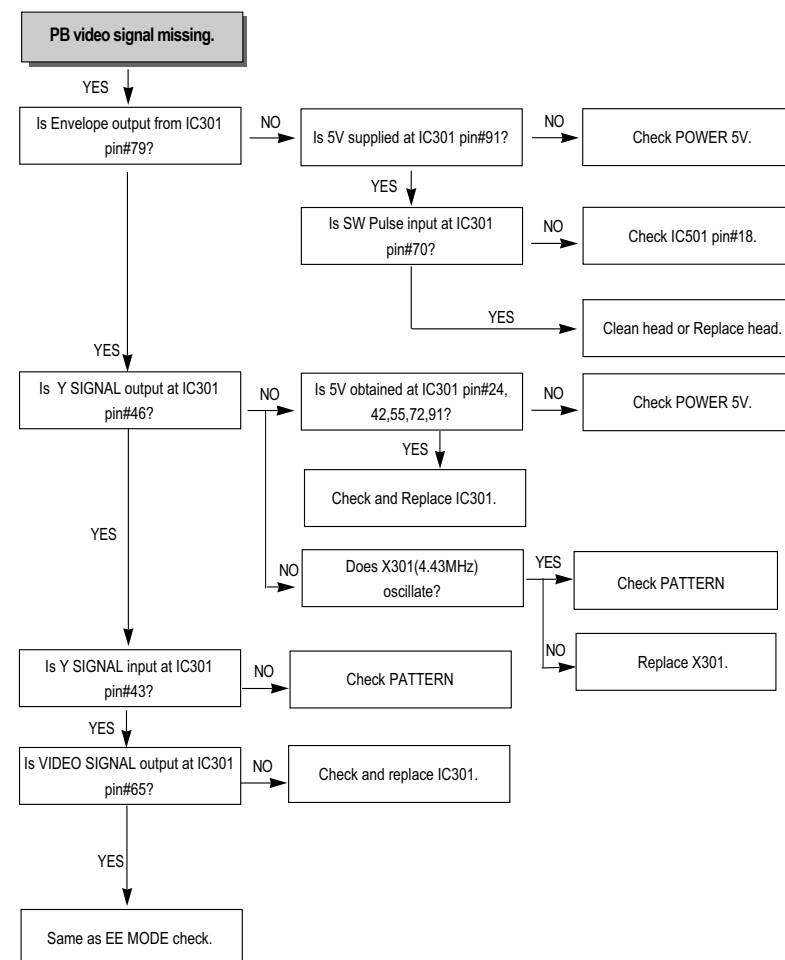
3. VIDEO circuit

A. EE screen doesn't appear

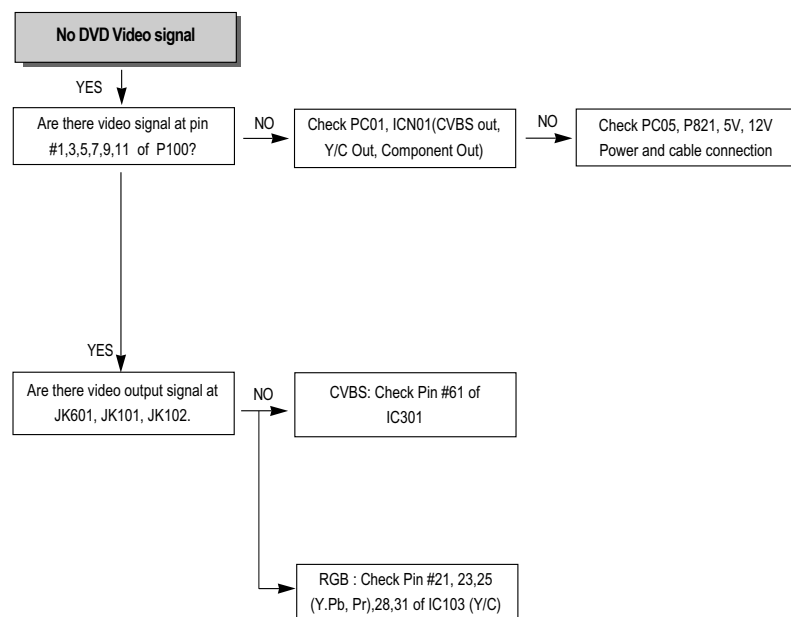


B. Playback picture doesn't appear

1) No VCR Playback Picture

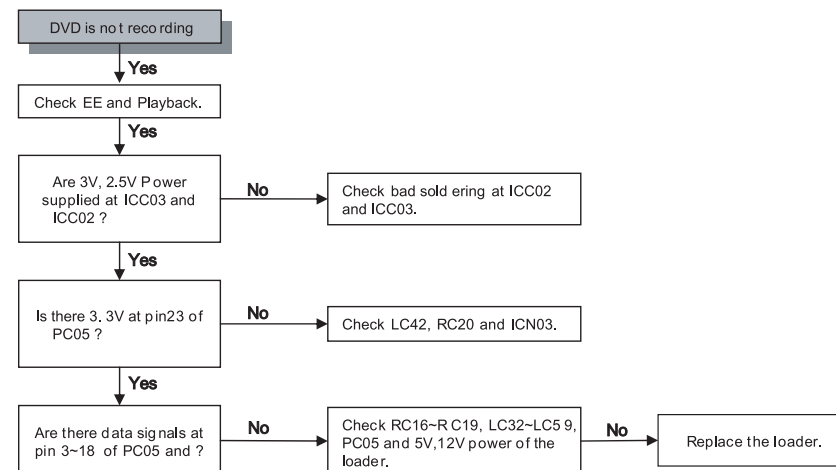


2) No DVD Playback Picture

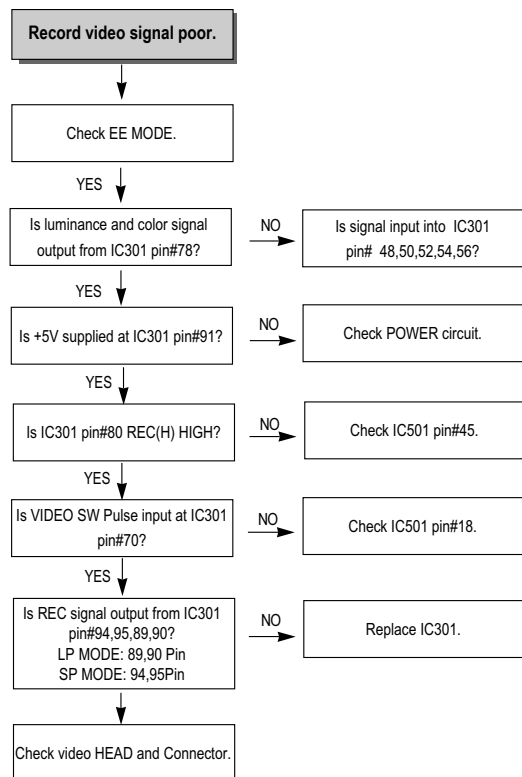


C. No Recording

1). DVD Part



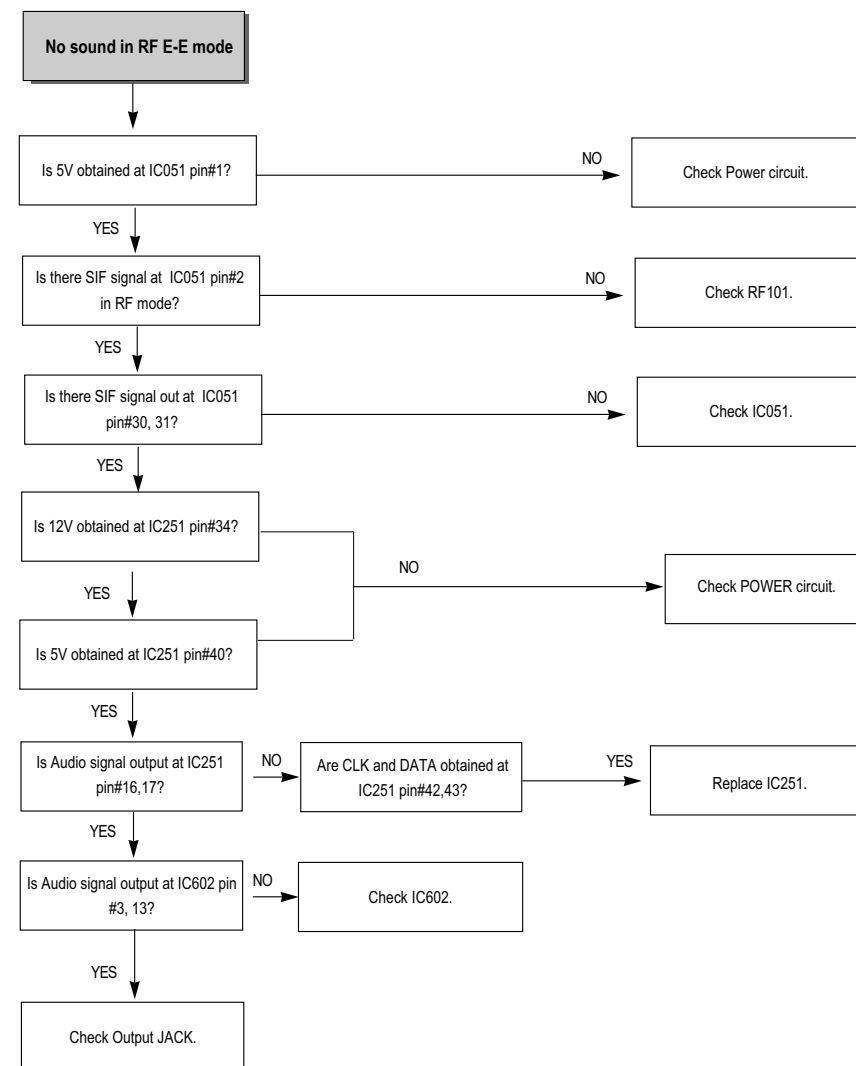
2) VCR Part



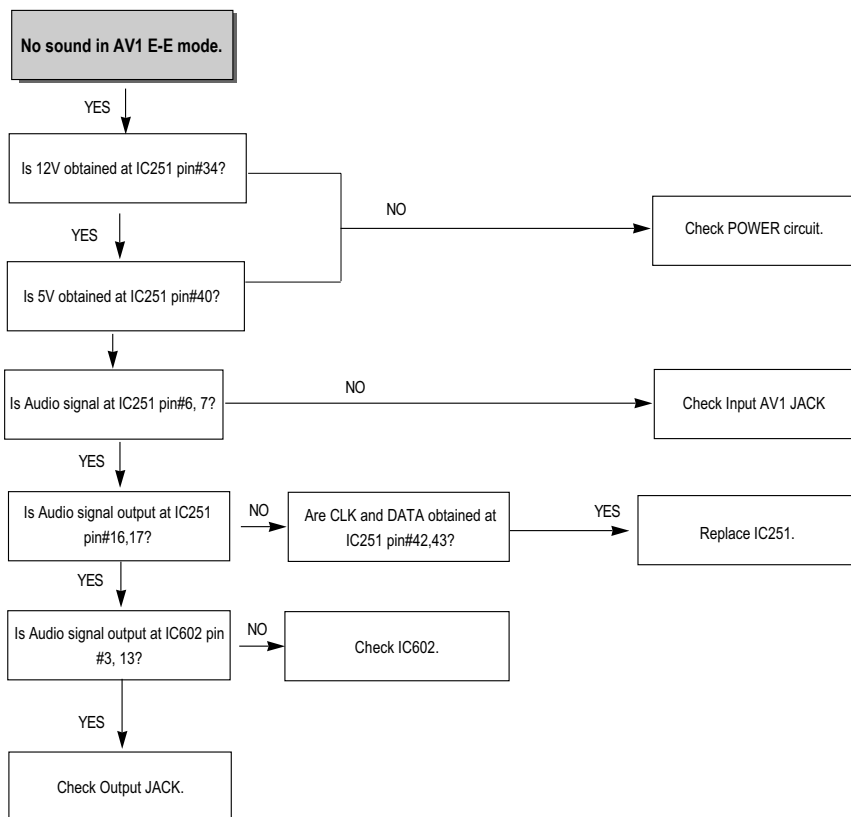
4. AUDIO (Hi-Fi MODEL)

A. No sound in E-E mode

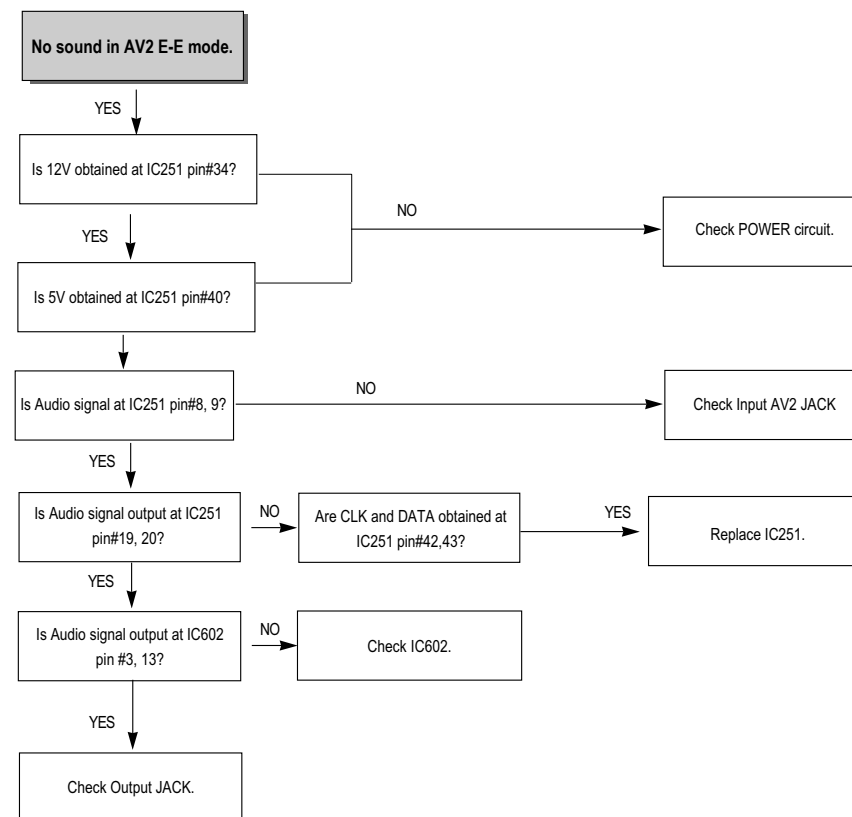
a. RF E-E



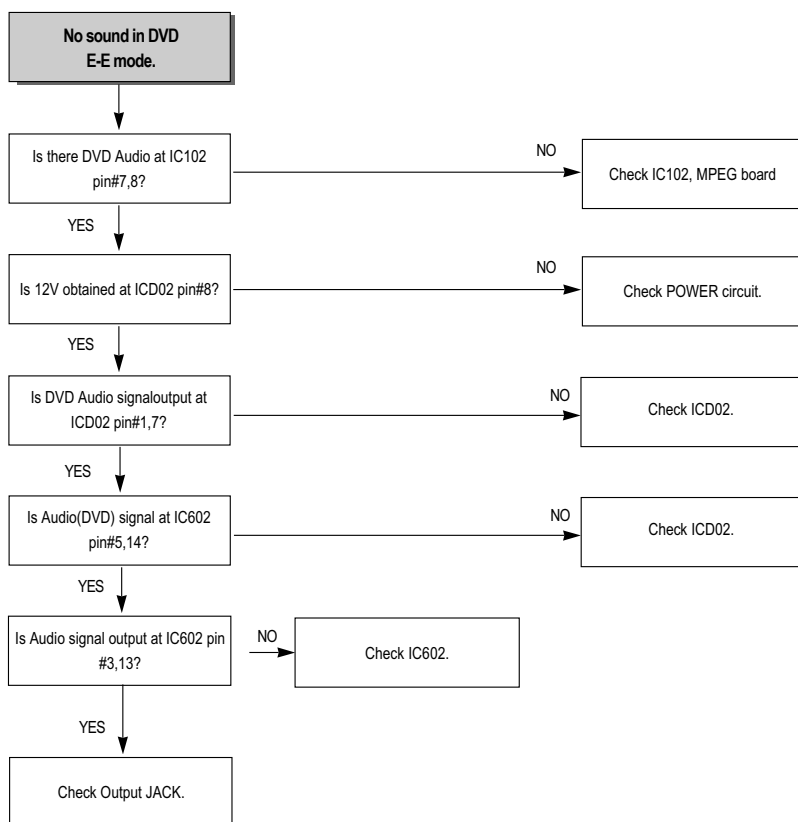
b. AV1 E-E



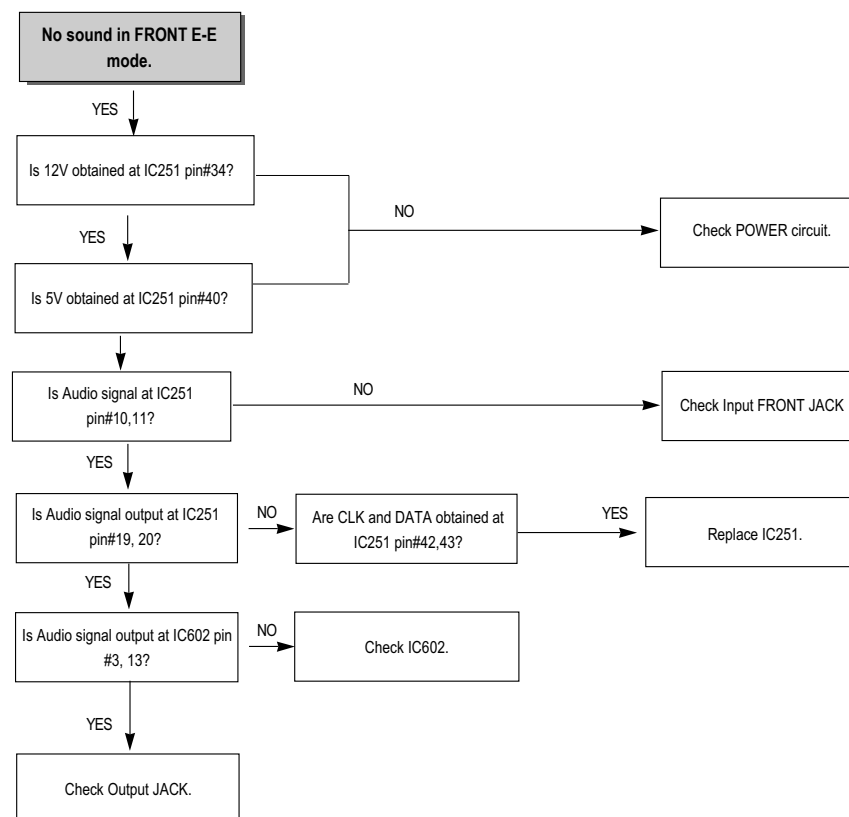
c. AV2 E-E



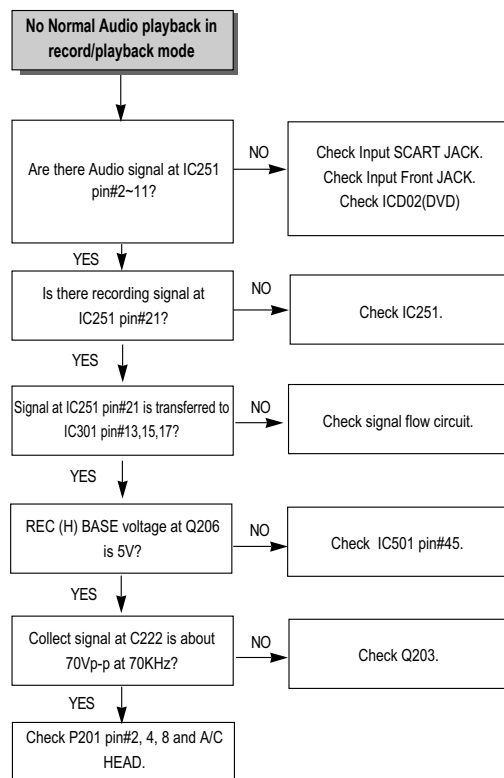
d. DVD E-E



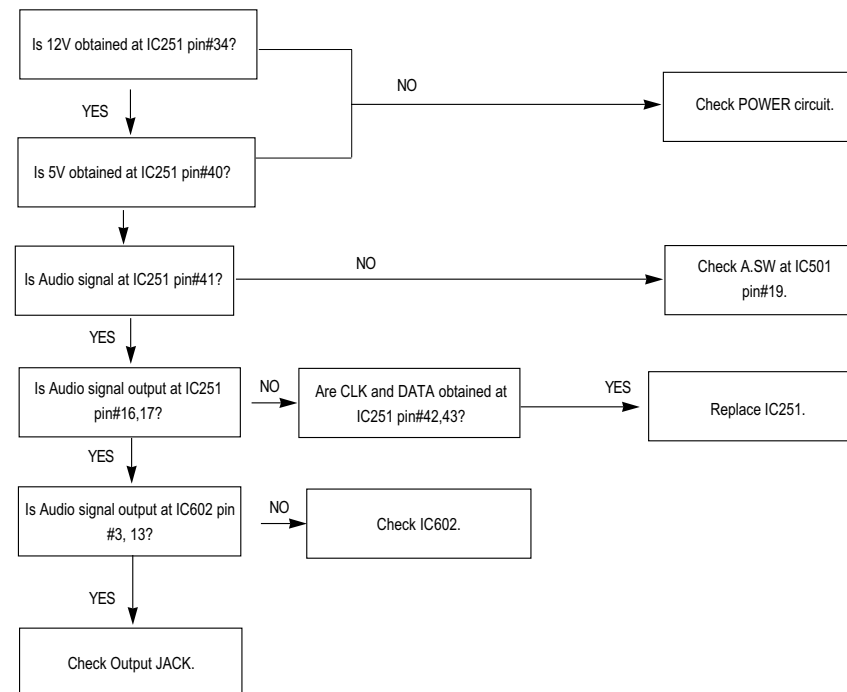
e. FRONT E-E

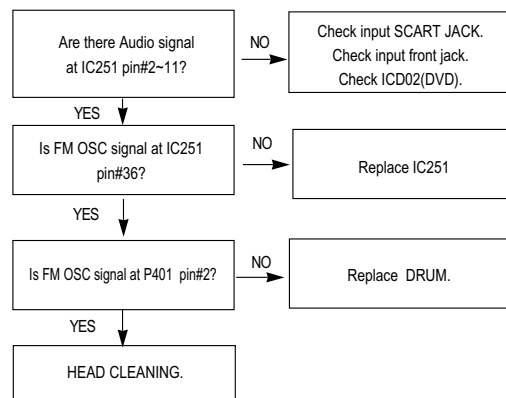
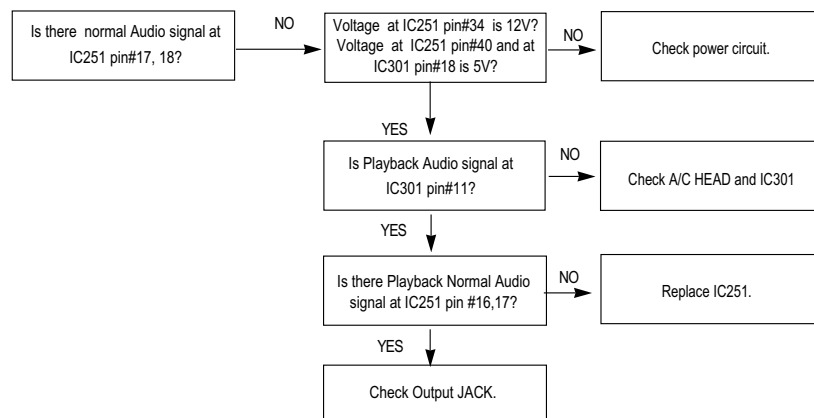
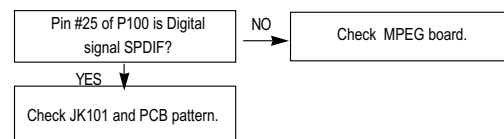


B. No NORMAL AUDIO playback in record/playback mode(Check in REC mode)

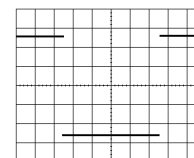
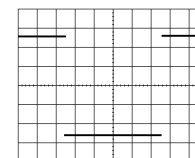
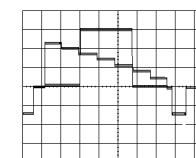
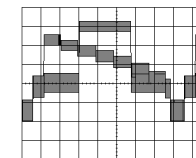
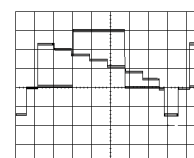
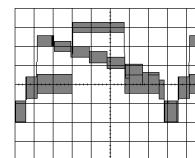
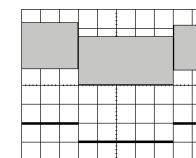
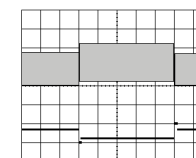
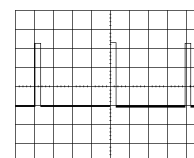
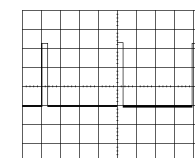
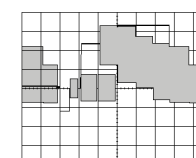
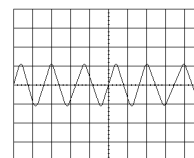


C. No Hi-Fi Playback audio(PLAY MODE)



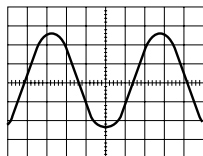
D. No Hi-Fi playback in record/playback mode (REC MODE)**E. No NORMAL AUDIO playback (PLAY MODE)****F. No Sound in JK101 COAXIAL Jack.**

1. VIDEO

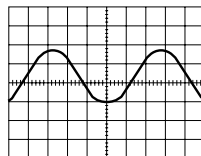
① (IC301-70) 5Vp-p
1V/2msec/cm
REC① (IC301-70) 5Vp-p
1V/2msec/cm
PLAY② (IC301-46) 520mVp-p
200mV/5usec/cm
REC② (IC301-46) 520mVp-p
200mV/5usec/cm
PLAY③ (IC301-43) 520mVp-p
100mV/5usec/cm
REC③ (IC301-43) 520mVp-p
100mV/5usec/cm
PLAY④ (IC301-21) 600mVp-p
200mV/2msec/cm
PLAY(SP) VIDEO SW TRIG④ (IC301-21) 350mVp-p
200mV/2msec/cm
PLAY(EP) VIDEO SW TRIG⑤ (IC301-67) 4.6Vp-p
2V/10usec/cm
REC/PLAY⑤ (IC301-67) 4.6Vp-p
2V/10usec/cm
PICTURE SEARCH⑥ (IC301-65) 2.2Vp-p
500mV/5usec/cm
REC⑥ (IC301-65) 2.2Vp-p
500mV/5usec/cm
PLAY⑦ (IC301-28) 450mVp-p
200mV/0.1usec/cm

2. AUDIO

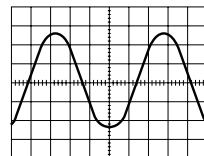
2-1 AUDIO(Normal)



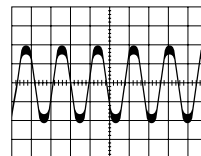
⑧ (IC301-15) 100mVp-p
20mV/0.5msec/cm
REC



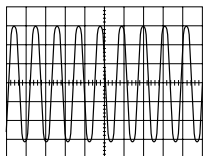
⑨ (IC301-11) 1.5Vp-p
0.5V/0.5msec/cm
REC



⑩ (IC301-100) 2.3Vp-p
0.5V/0.5msec/cm
REC

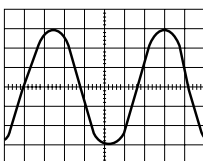


⑪ (IC301-8) 120mVp-p
50mV/0.5msec/cm
PLAY

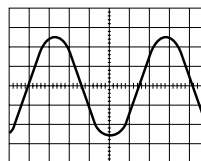


⑫ (P202-2) 75Vp-p
10V/20μsec/cm
REC

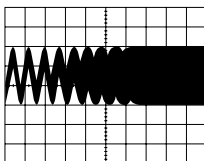
2-2 AUDIO(Hi-Fi)



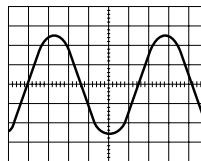
⑬ (IC251-2) 80mVp-p
20mV/0.5msec
EE/REC/PLAY



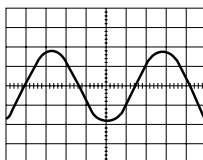
⑭ (IC251-24) 200mVp-p
50mV/0.5msec
EE/REC



⑮ (IC251-34) 1.4Vp-p
0.5V/1msec
REC

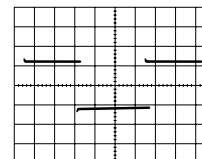


⑯ (IC251-32) 200mVp-p
50mV/0.5msec
EE/REC

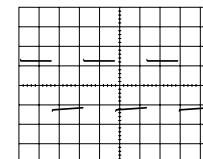


⑰ (IC251-16) 1.4Vp-p
0.5V/0.5msec
EE/REC

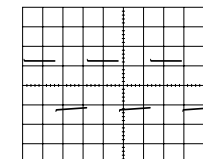
3. SERVO/SYSCON



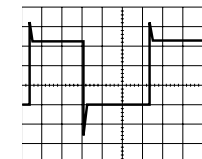
⑱ (IC501-18) 5Vp-p
2V/5msec/cm
REC/PLAY



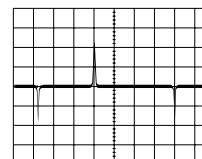
⑲ (IC501-77) 5Vp-p
2V/5μsec/cm
REC/PLAY



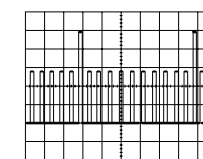
⑳ (IC501-76) 5Vp-p
2V/5μsec/cm
REC/PLAY



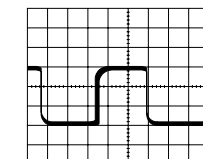
㉑ (IC501-94) 3Vp-p
1V/5msec/cm
REC



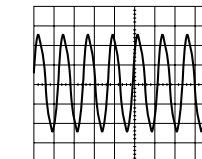
㉒ (IC501-97) 4.4Vp-p
1V/5msec/cm
PLAY



㉓ (IC501-90) 25Vp-p & 5Vp-p
1V/5msec/cm
REC/PLAY



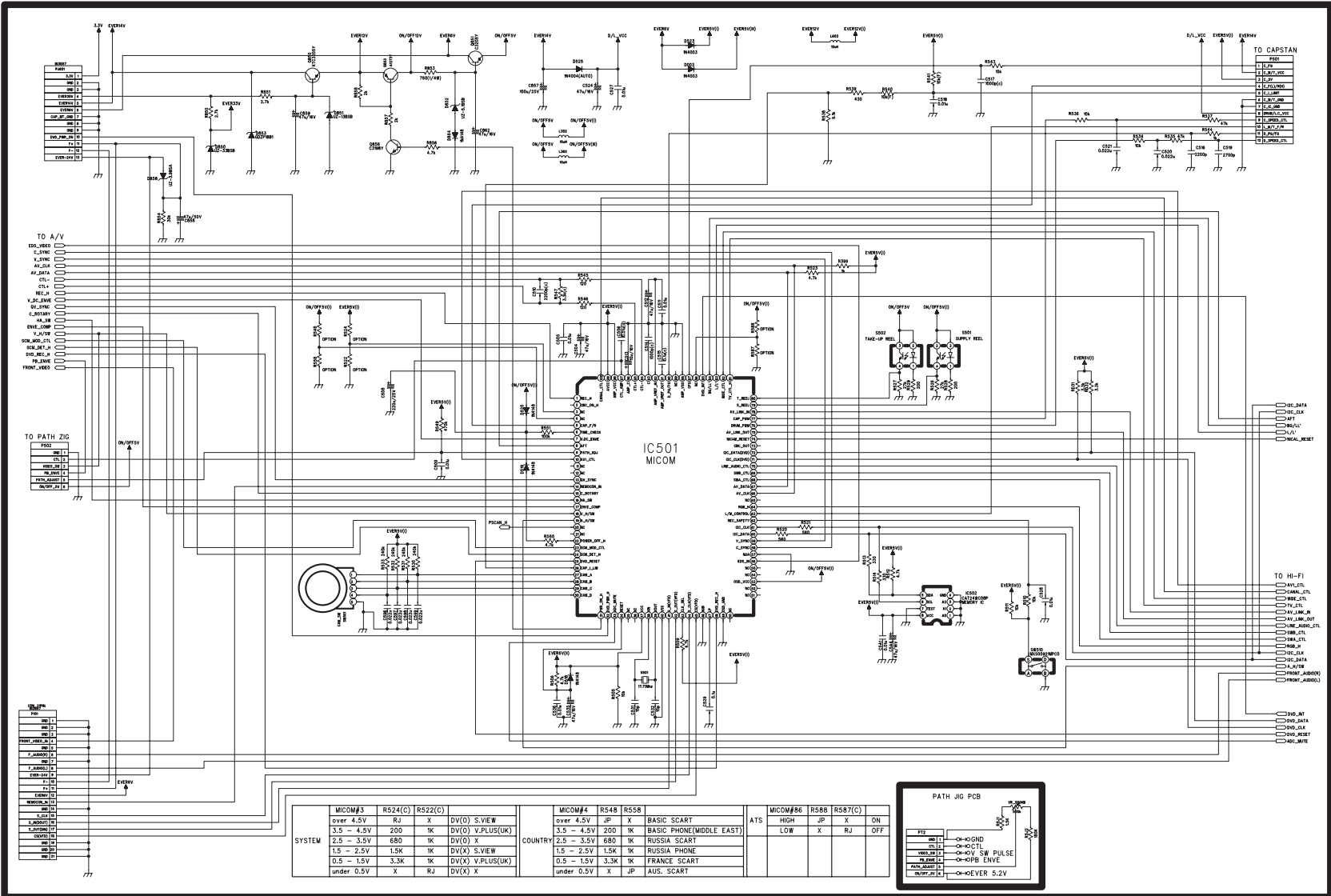
㉔ (IC501-87) 2.5Vp-p
1V/0.2msec/cm
REC/PLAY



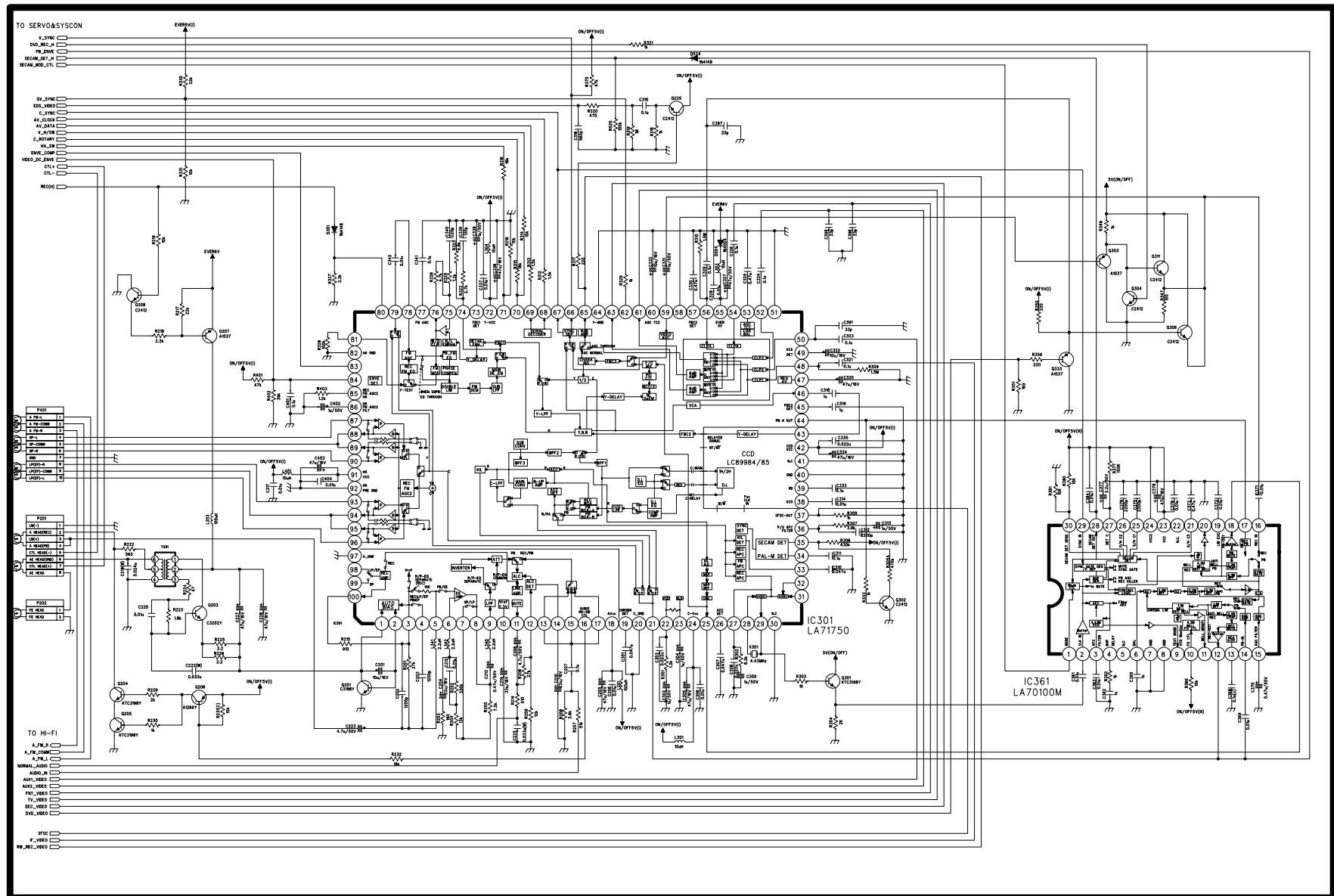
㉕ (IC501-38) 2.6Vp-p
0.5V/0.1μsec/cm
REC/PLAY

CIRCUIT DIAGRAM

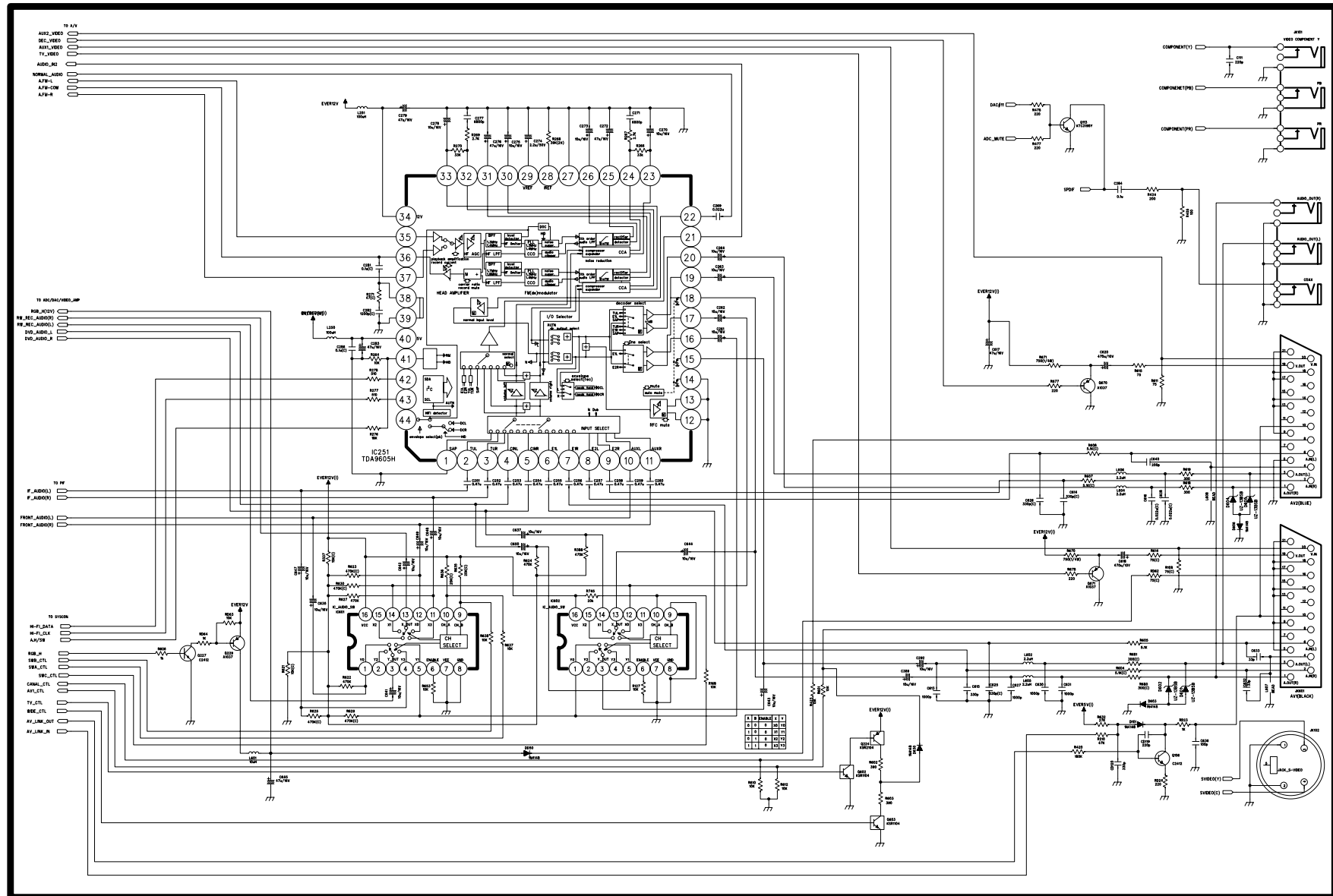
1. SERVO & SYSCON SCHEMATIC DIAGRAM(DVDR+VCR)



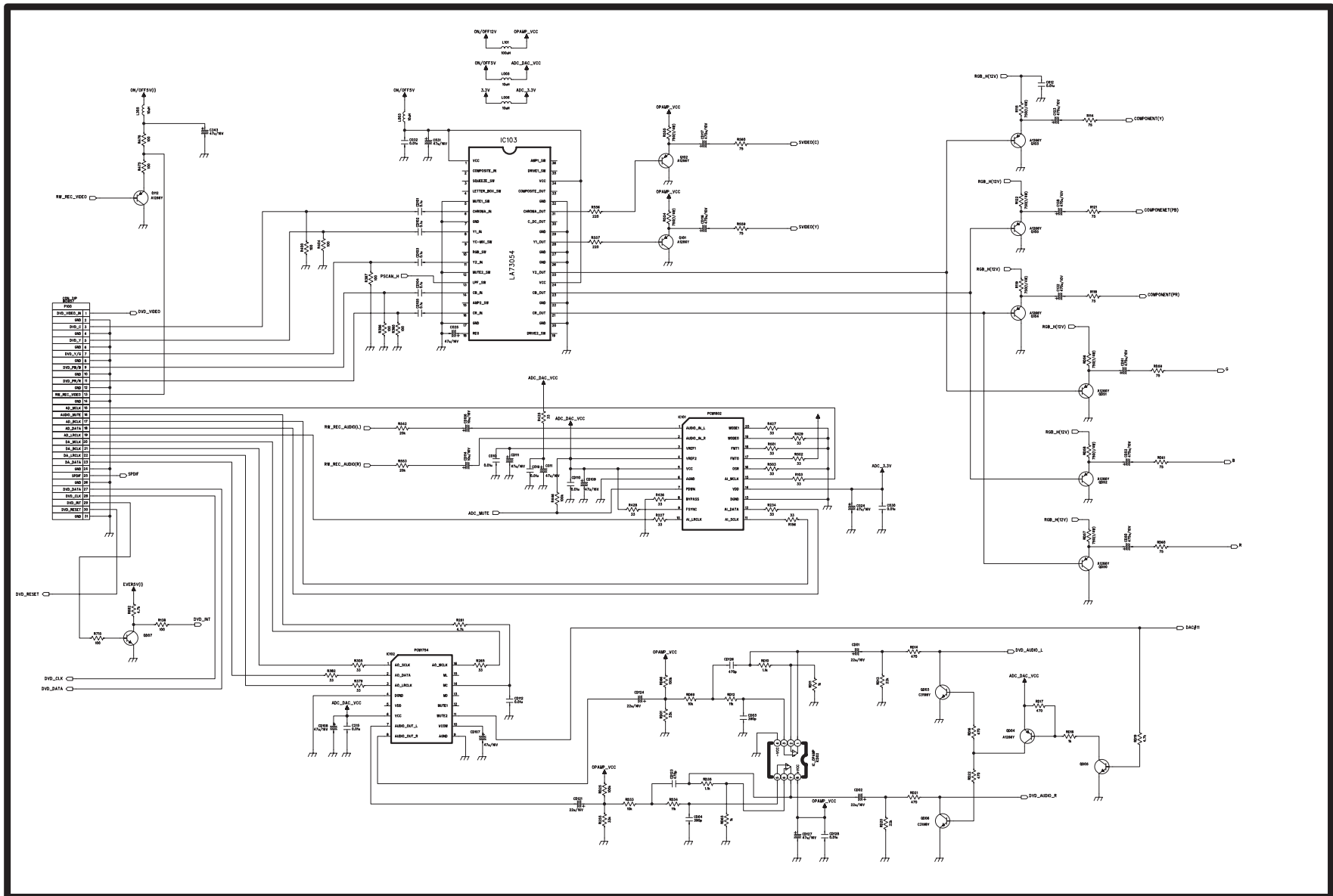
2. AV IC SCHEMATIC DIAGRAM(DVDR+VCR)



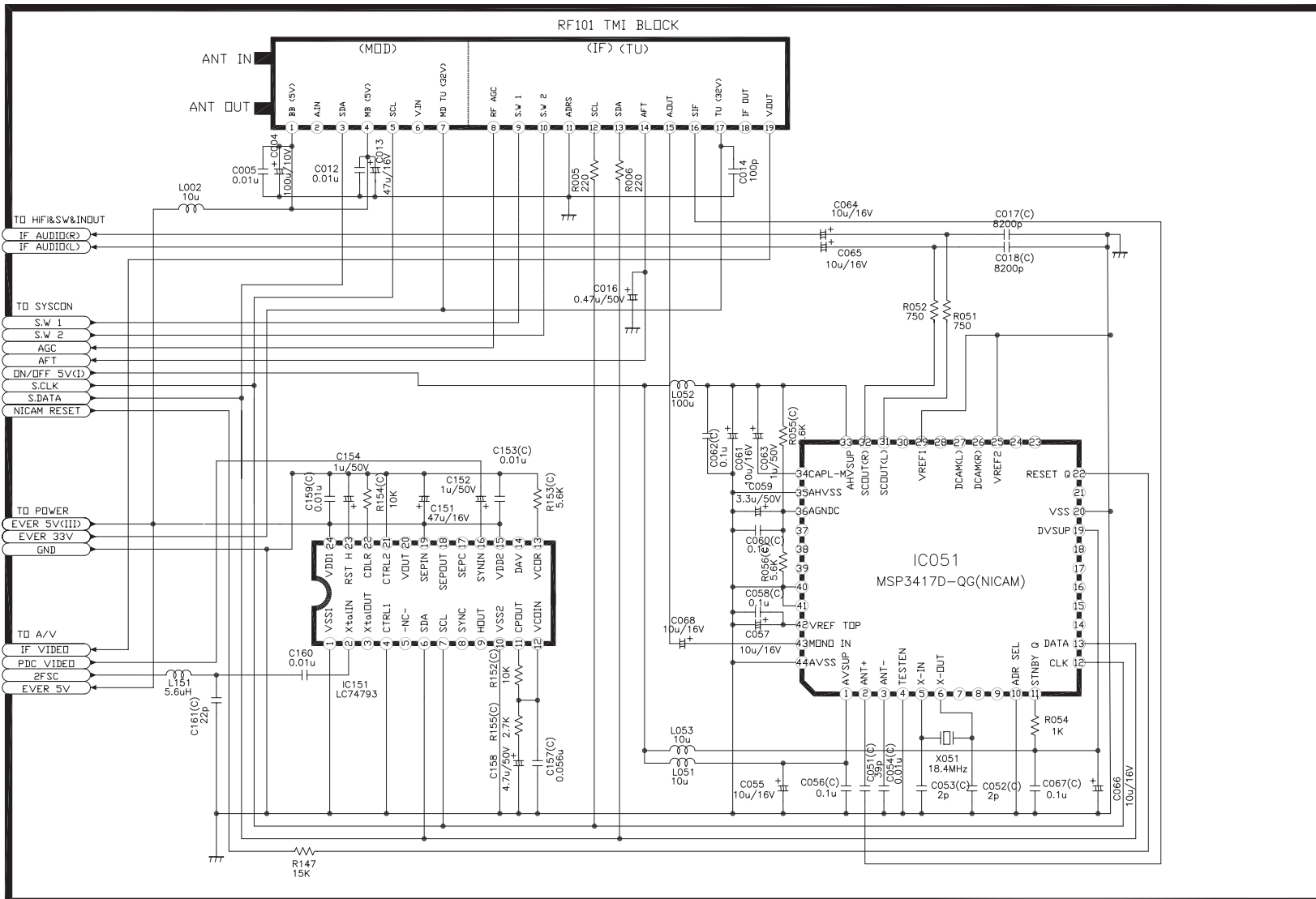
3. Hi-Fi & SW & IN OUT CIRCUIT SCHEMATIC DIAGRAM(DVDR+VCR)



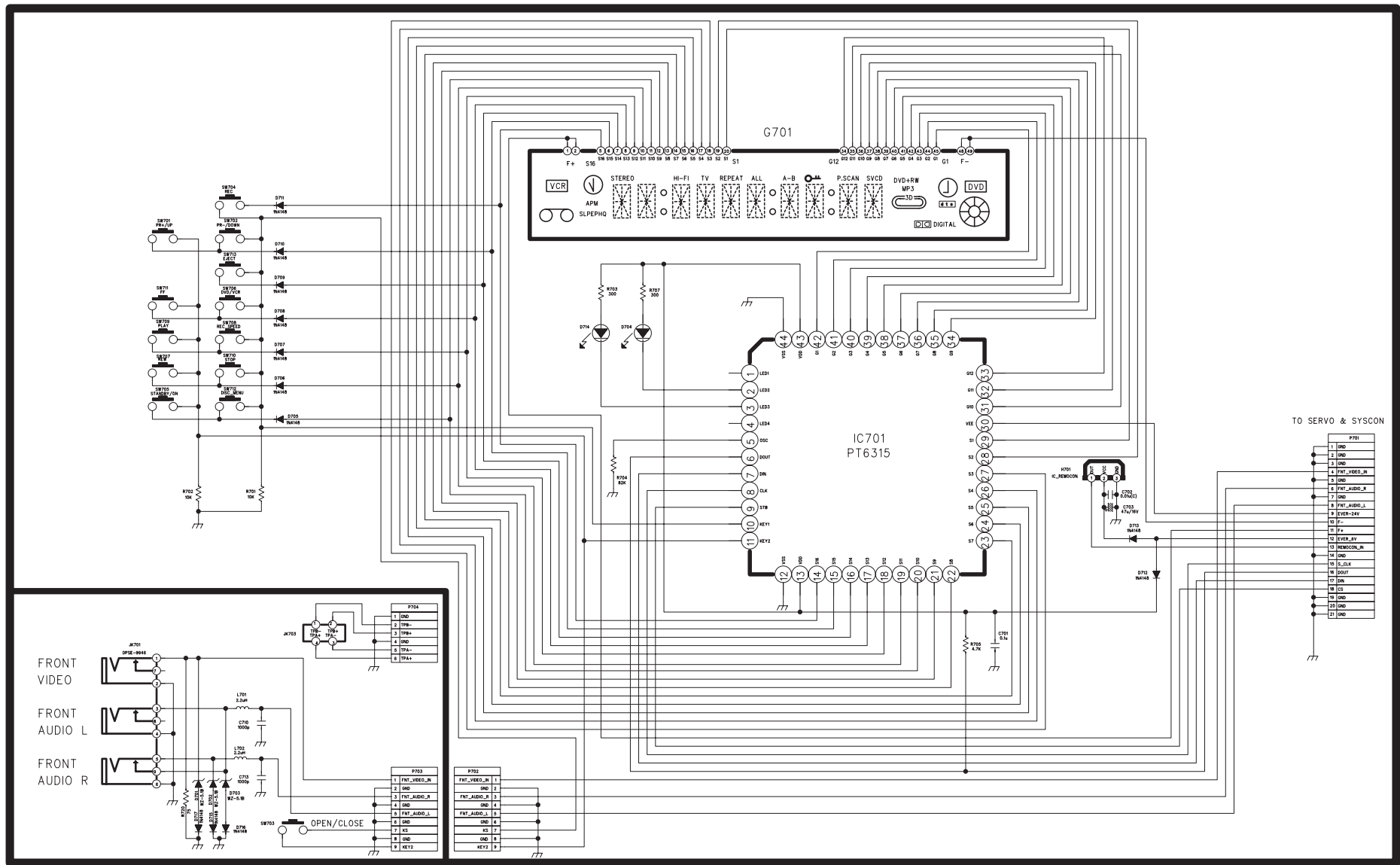
4. ADC/DAC/VIDEO AMP



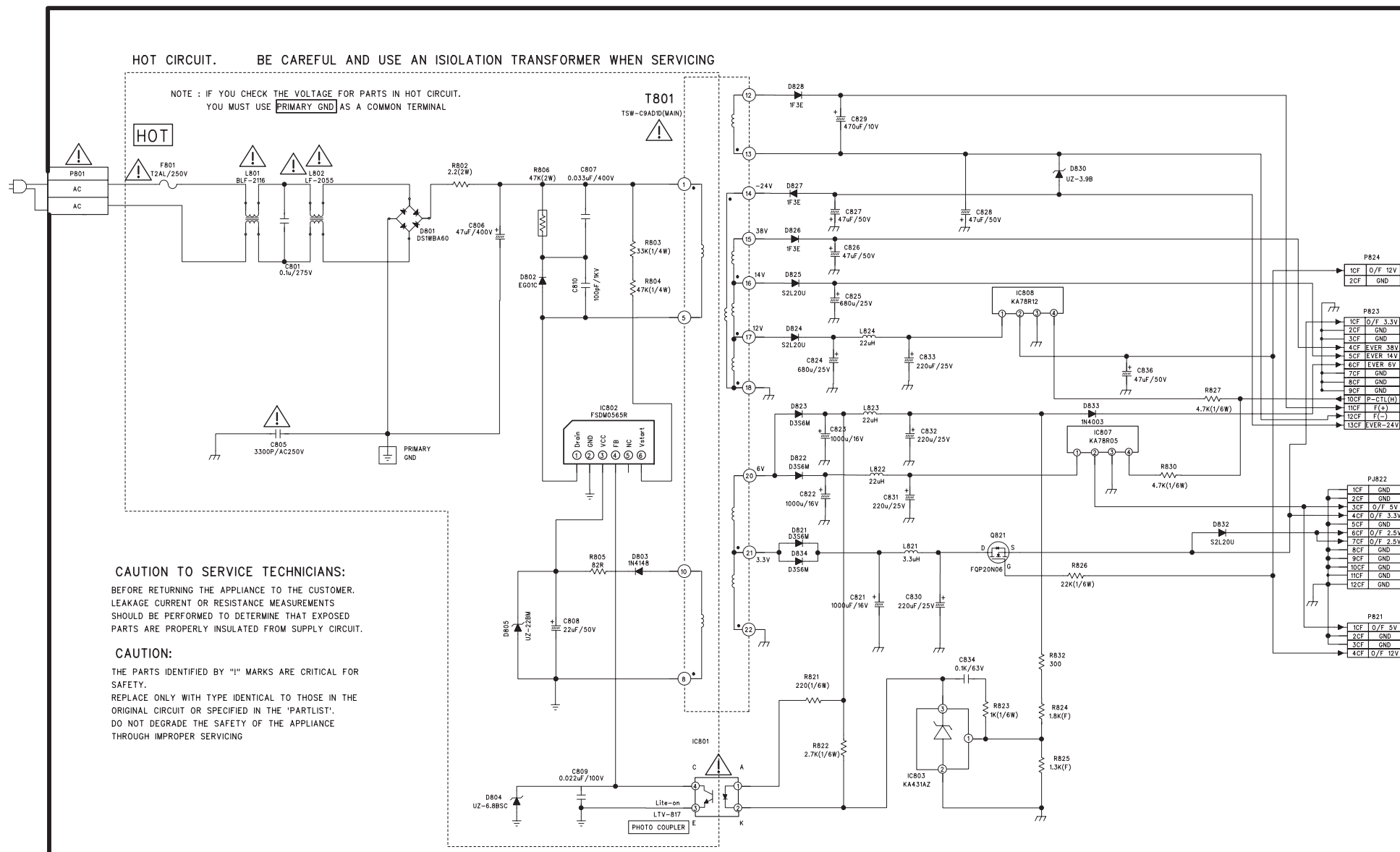
5. PIF CIRCUIT DIAGRAM



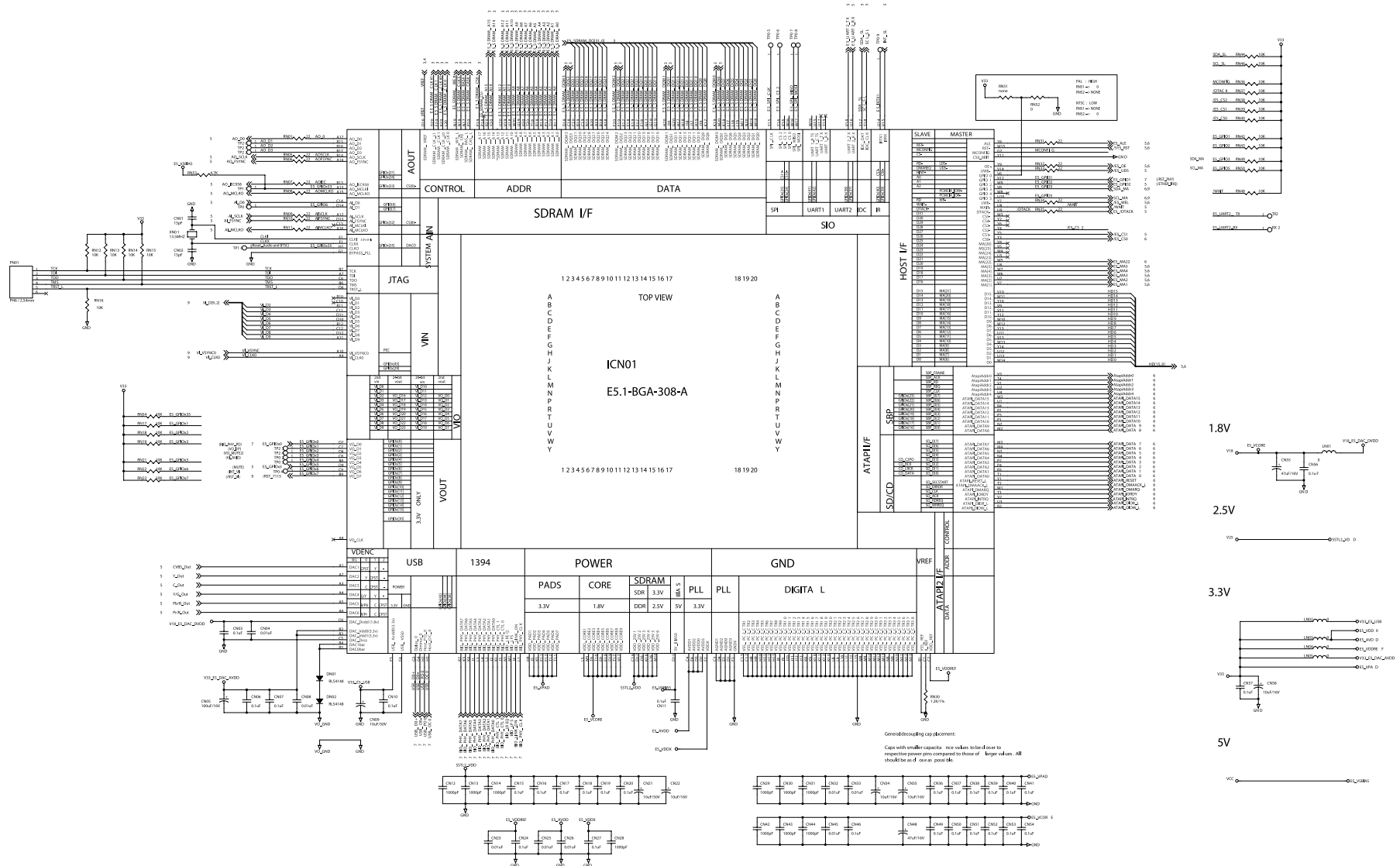
6. FRONT PART SCHEMATIC DIAGRAM



7. POWER SUPPLY SCHEMATIC DIAGRAM

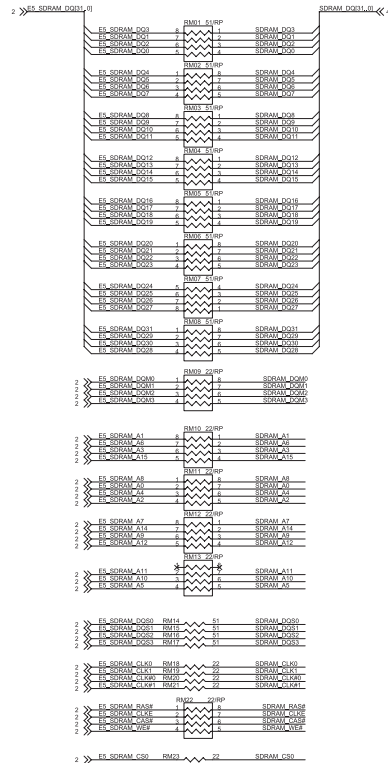


8. 8602 CODEC

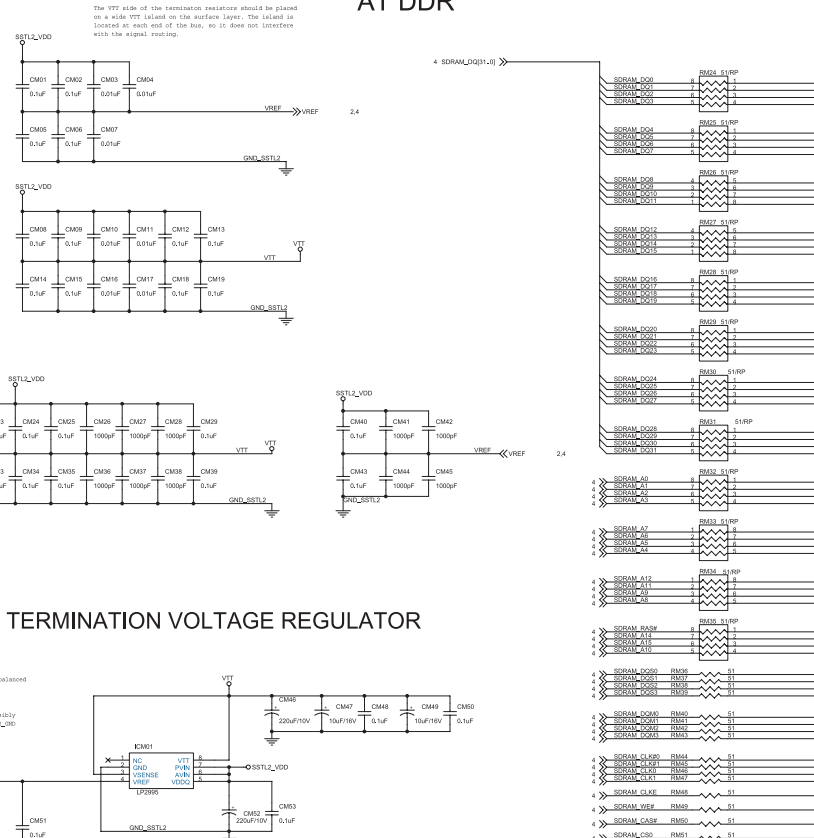


9. TERMINATION

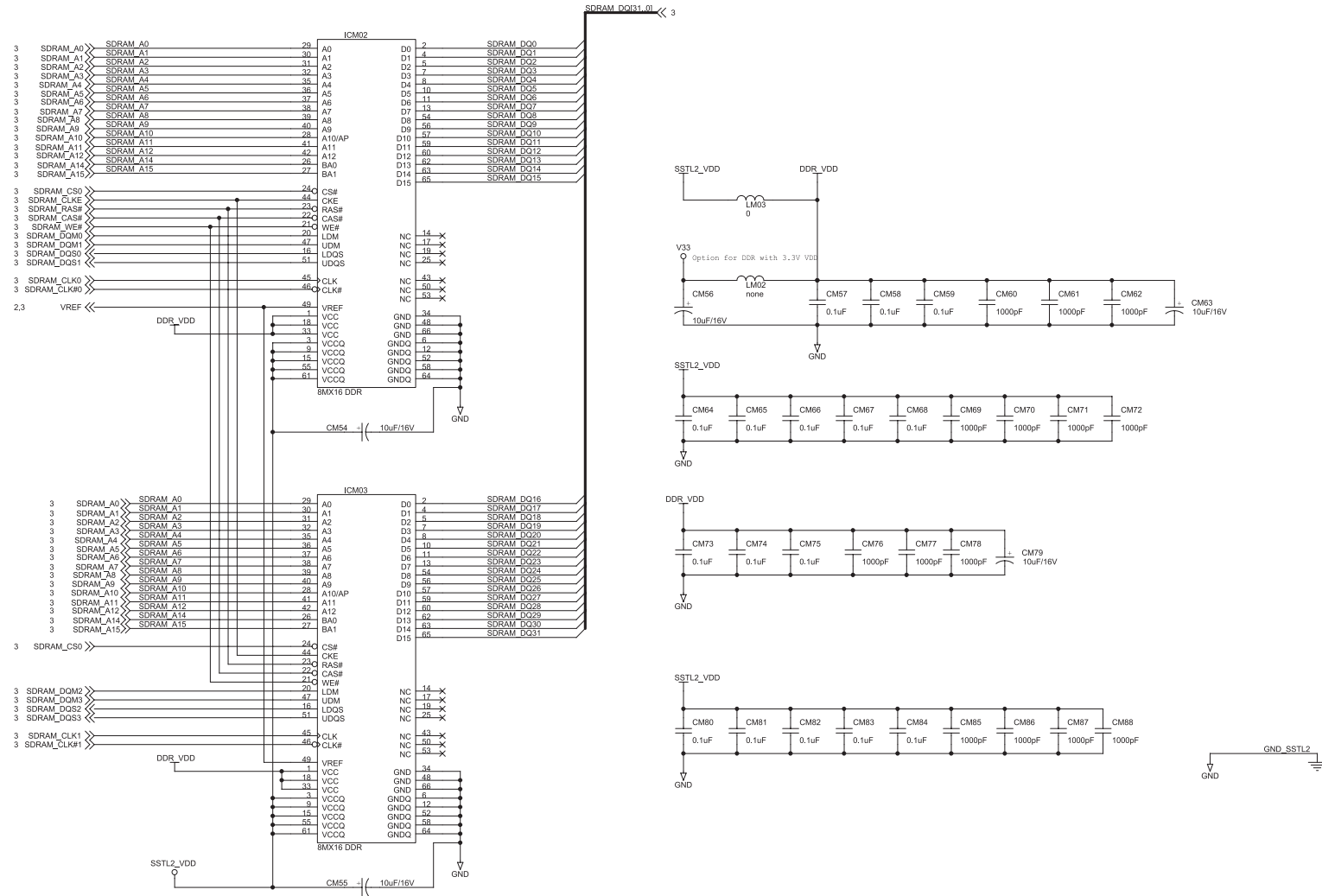
TERMINATION AT E5.1



TERMINATION AT DDR



10. DDR/SDRAM

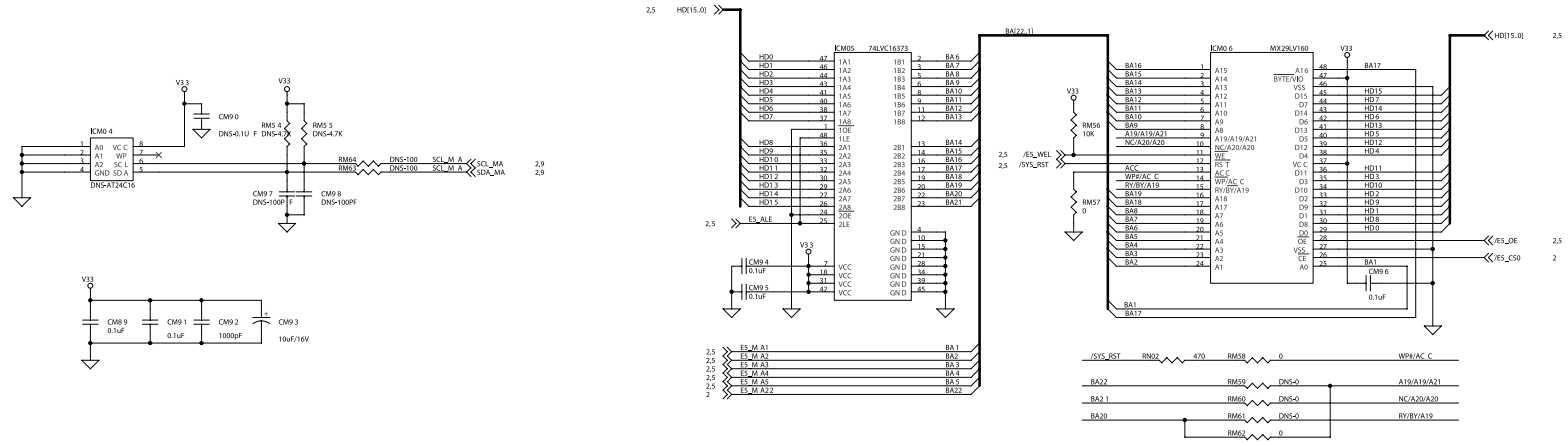


The schematic diagram illustrates the internal wiring of the PC01 module. On the left, two I2C signal lines, SDA_SL and SCL_SL, are connected to the module's pins through pull-up resistors RC05 and RC04 (3.3K) and transistors QC01 and QC02 (dns-BSS138). The module's internal components include a network of capacitors (LC17-LC22, LC10-LC16, LC05-LC09, RC48, RC45, RC49) and a capacitor CC28 (0.1uF). The right side of the diagram shows the connections to the Analog Board PJ301 (pins 1-14) and P100 (pins 15-31). Key connections include CVBS, Y, Pb, Pr, and MUTE signals, and I2C signals (INT_SL, /SYS_RST). The module is powered by VCC and connected to ground (GND).

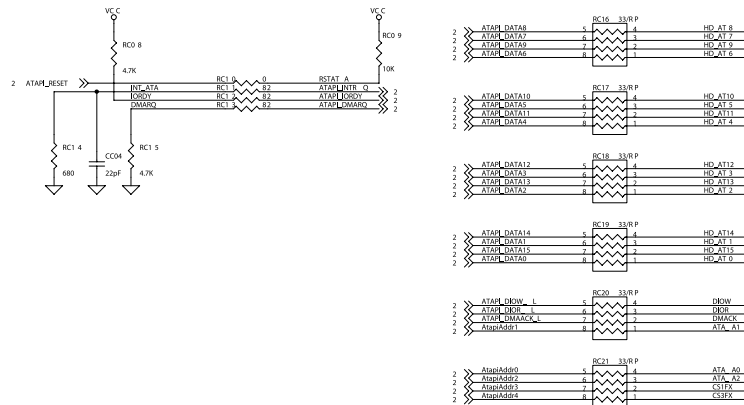
[illegible]

12. FLASH/ATAPI

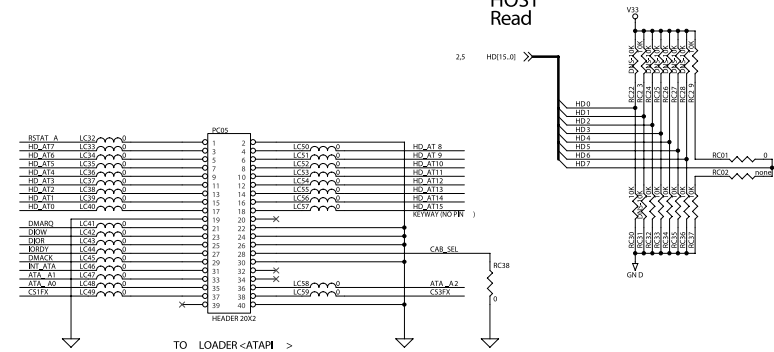
FLASH MEMORY(2 or 4 or 8 Mb)

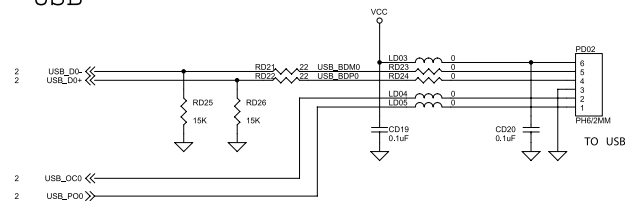


DEDICATED ATAPI INTERFACE



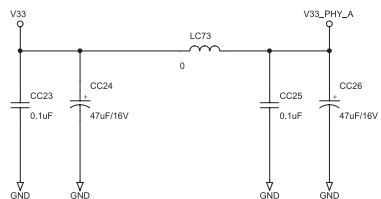
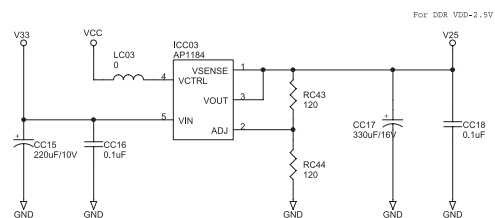
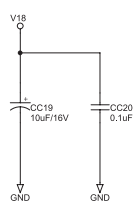
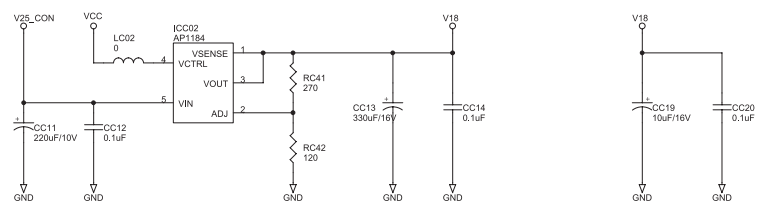
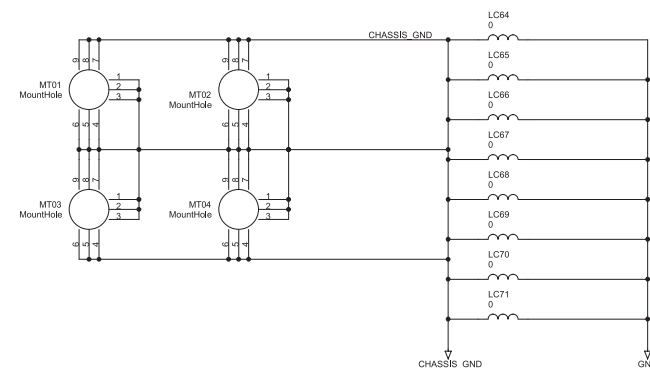
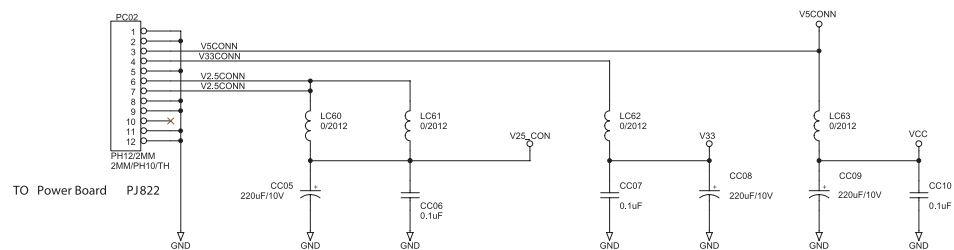
HOST
Road



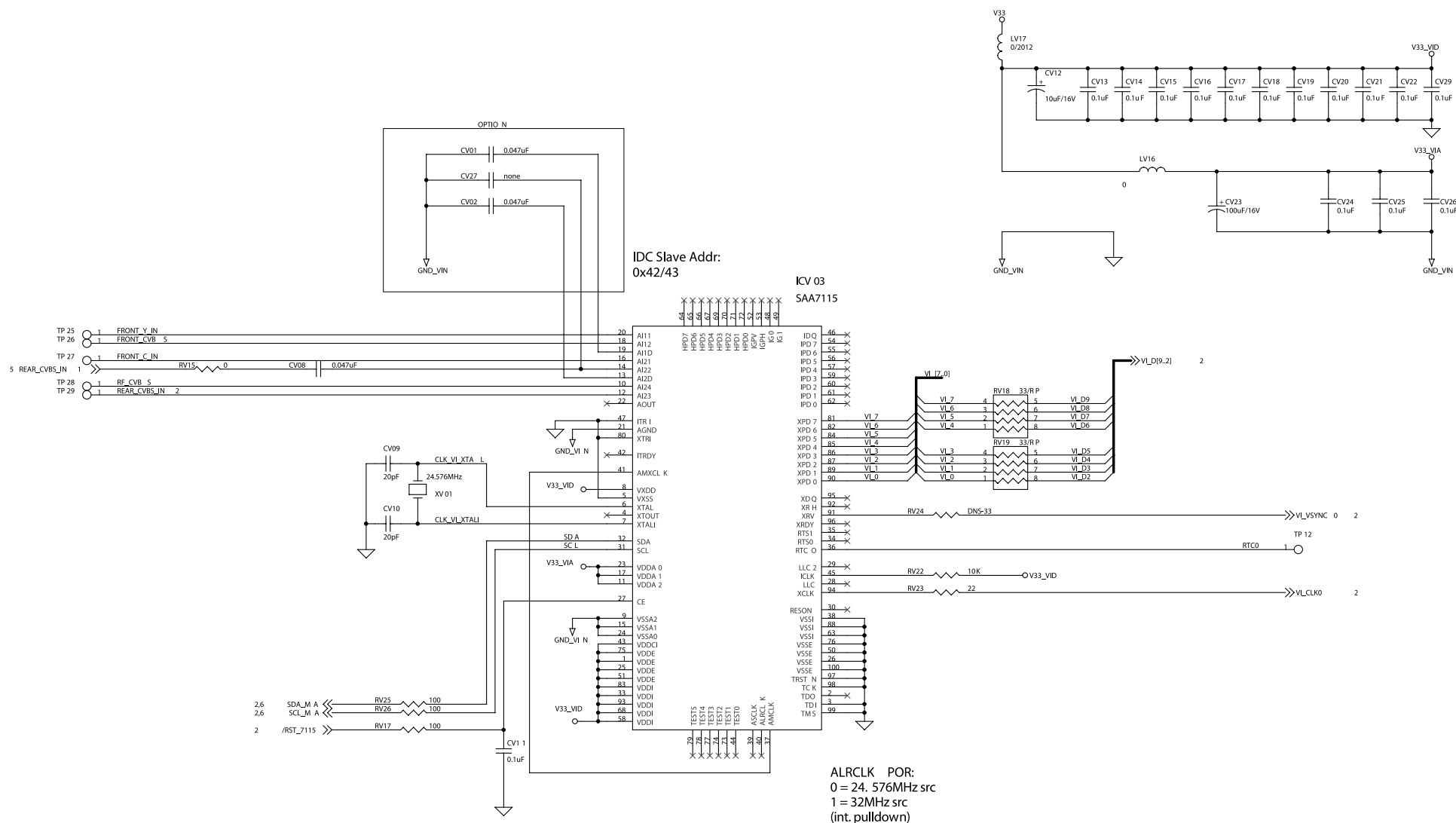


14. POWER CONNECTOR

MAIN POWER CONN

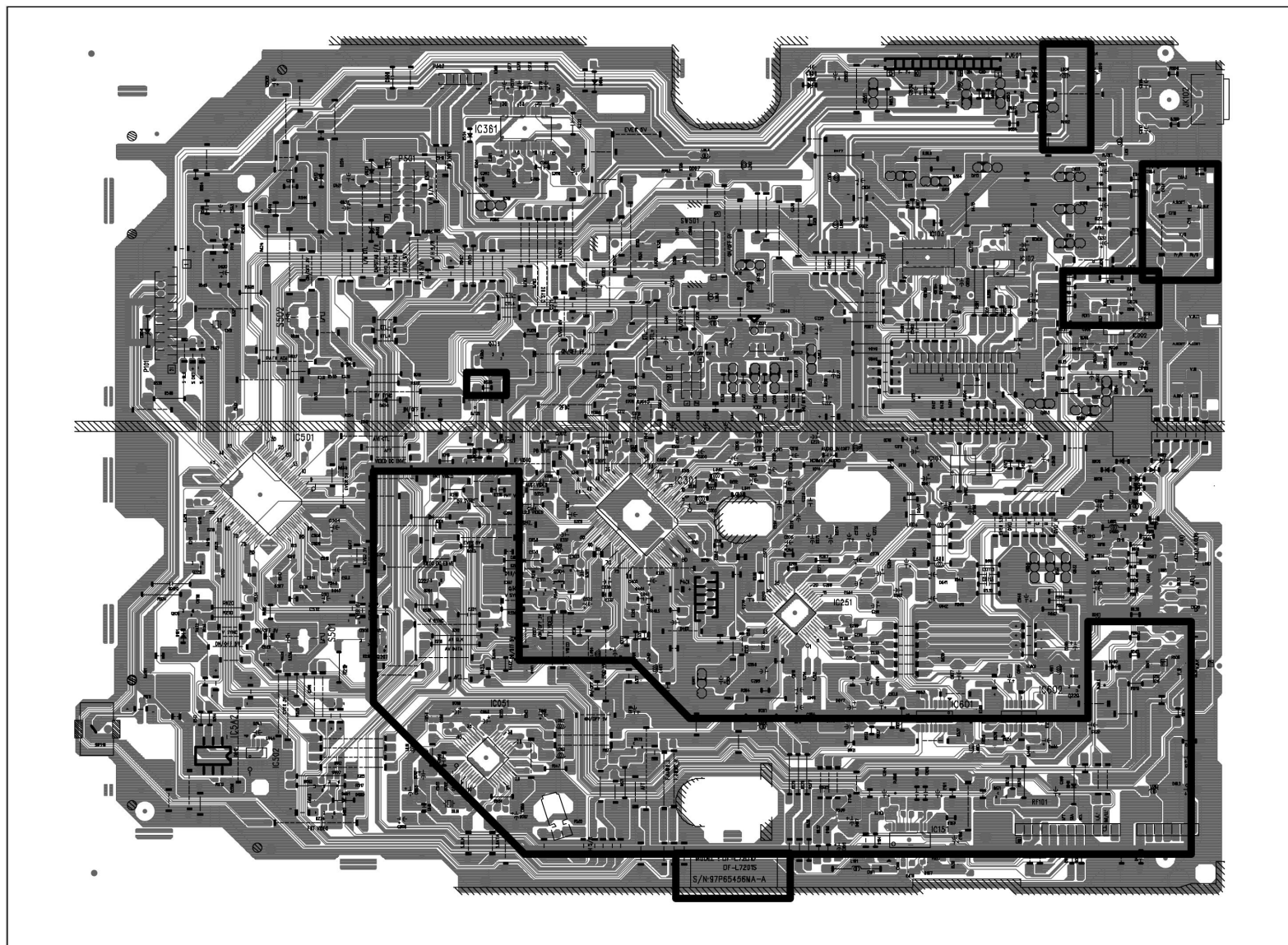


15. VIDEO DECODER (SAA7115)

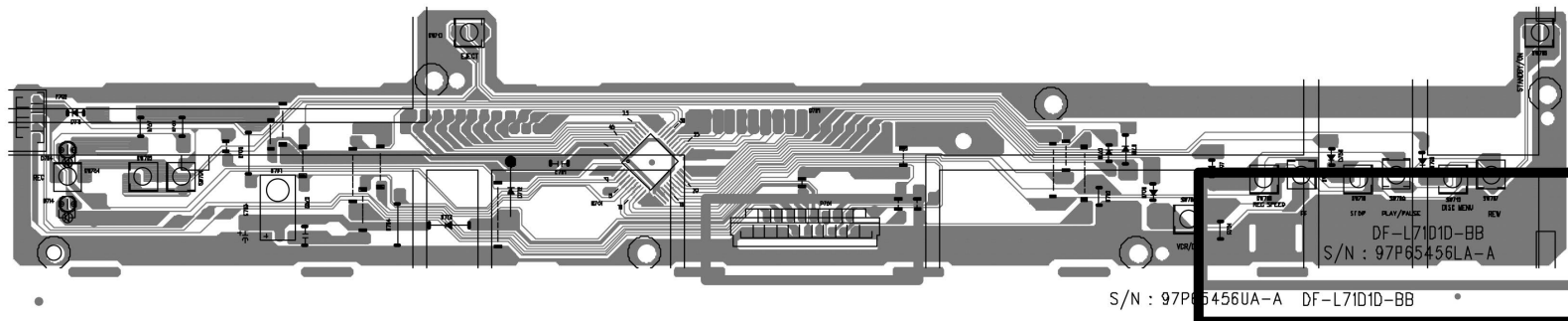
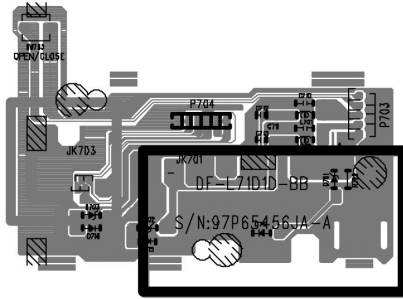


PCB CIRCUIT BOARD

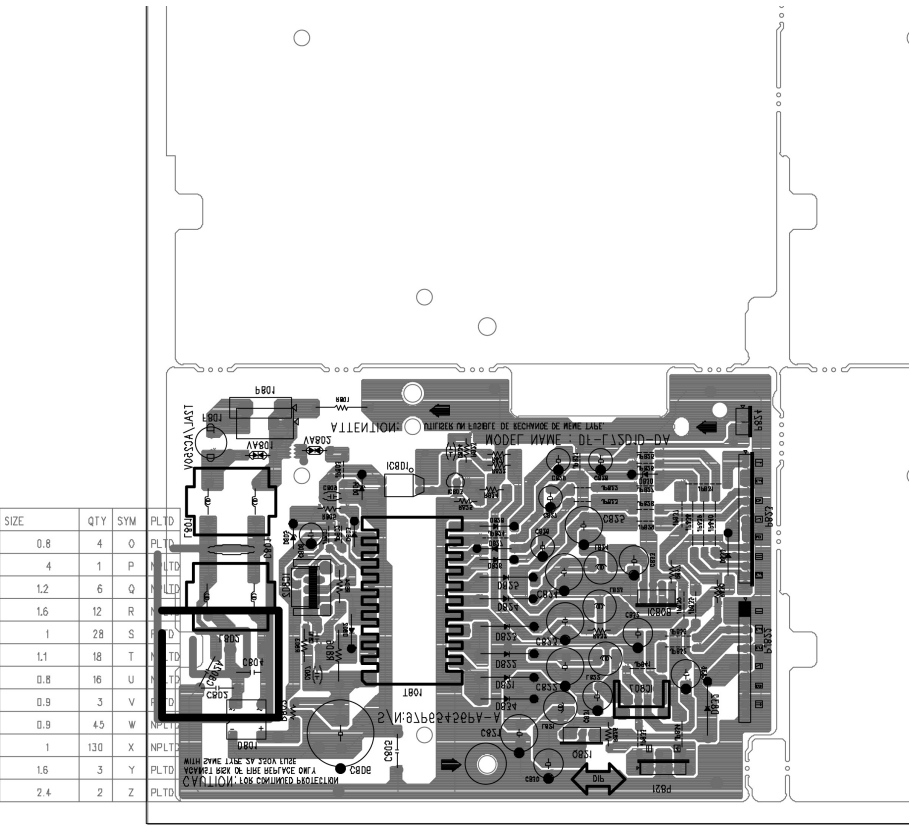
1. MAIN PCB



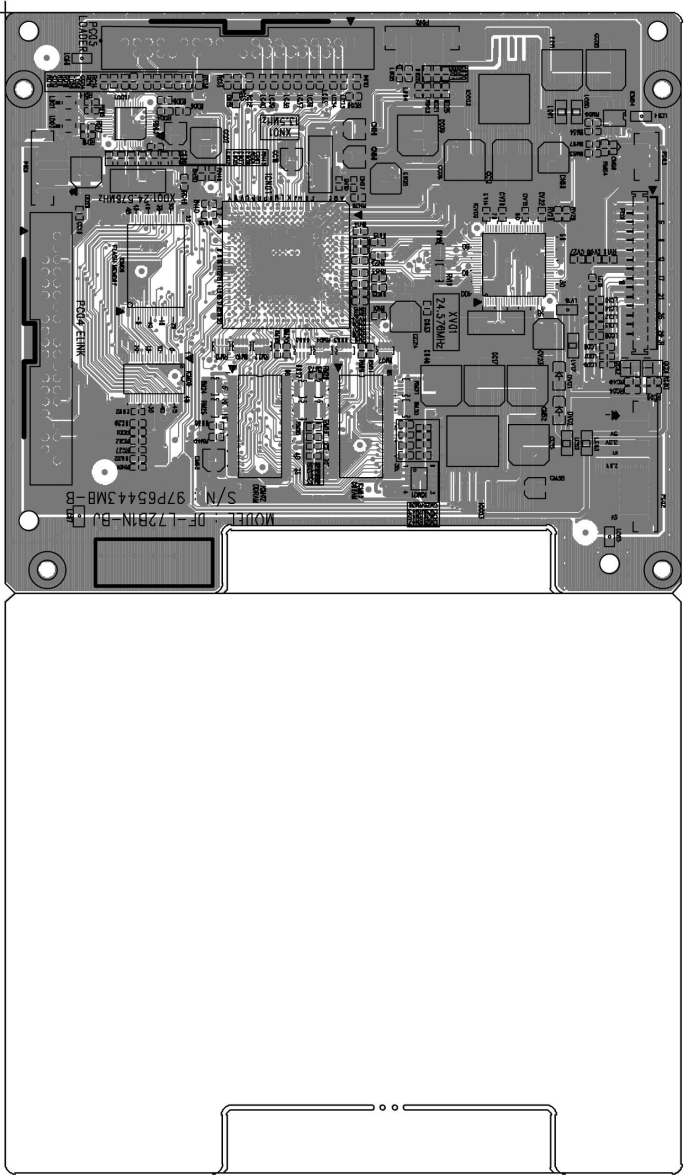
2. FRONT PANEL PCB

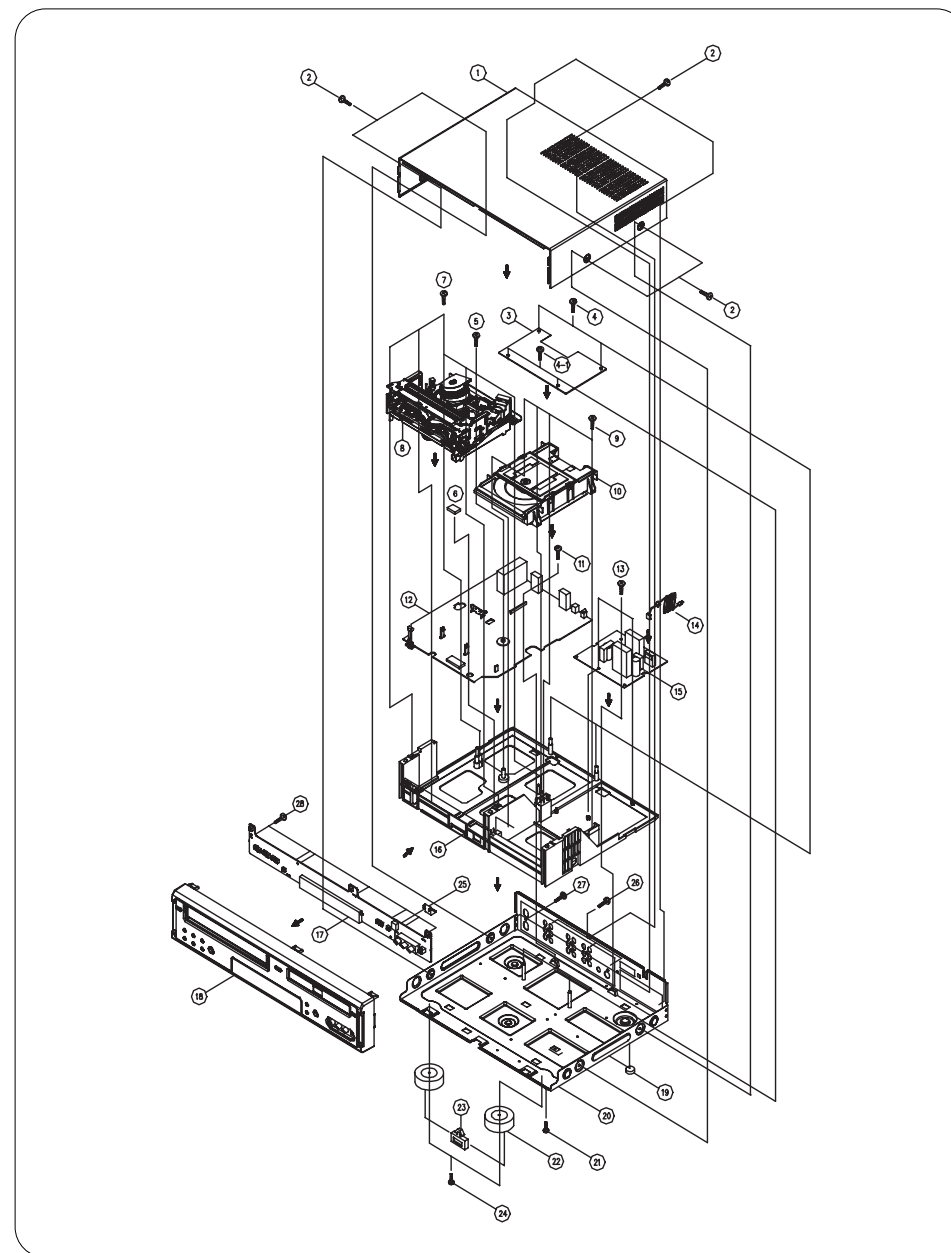
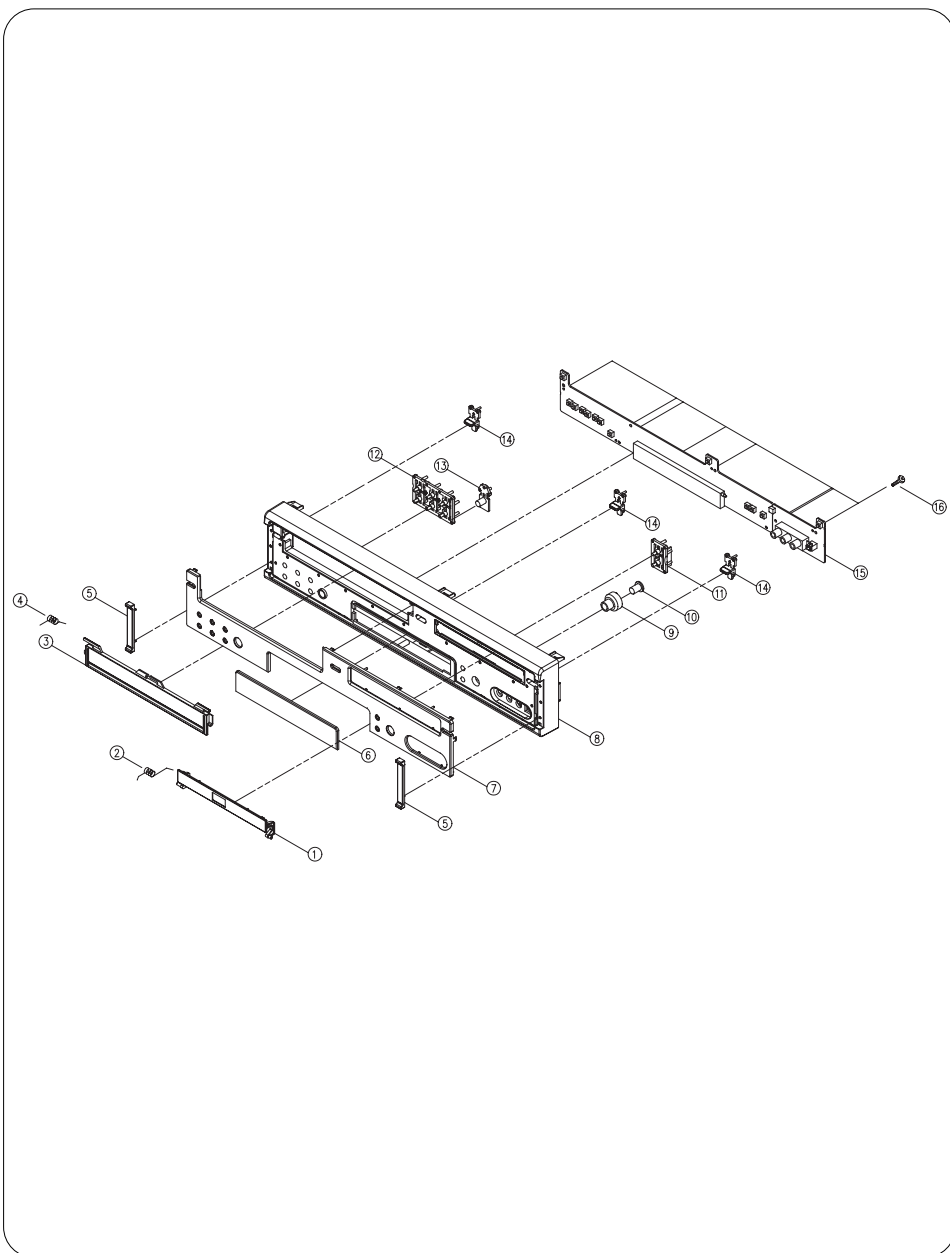


3. POWER PCB



4. MPEG PCB





ELECTRICAL PARTSLIST

✓ **Caution:** In this Service Manual, some parts can be changed for improving, their performance without notice in the parts list. So, if you need the latest parts information, please refer to PPL(Parts Price List) in Service information Center(<http://svc.dwe.co.kr>)

LOC	PARTS CODE	PARTS NAME	PARTS DESCRIPTION	REMARK	LOC	PARTS CODE	PARTS NAME	PARTS DESCRIPTION	REMARK
01	PVACPDS040	ACCESSORY AS	F342DY(BT,AAA)4		A1400	97S0904310	PLATE CONNECT-H	SECC T1.0	
DP01	97P9660000	MANUAL OWNERS	EC MODEL		A1500	97SA319410	REEL BRKT TOTAL AS	T2-MECHA	
DP02	97P881RP10	CABLE RF	PAL 1.0M		A1501	7273300511	SCREW TAPPTITE	TT3 BIN 3X5 MFZN	
DP03	97P0424100	COVER ACCESSORY	LD-PE TO.05		A1700	97S5500400	BELT REEL	CR68	
DP04	486A716202	BATTERY	AAA 1.5V(SUPERGARD)		A1800	97S2623200	LEVER RELAY	SECC T1.2	
02	PVPKCEP470	PACKING AS	DR-C921(CL,-)		A1900	97S2709600	RACK FL	PBT(DY4410GF) NATURAL	
CP01	97P4933300	PAD FIB	EPS		A2000	97S2708200	GEAR CAM	DERLIN 100	
CP02	97P4809400	POLY BAG FOR SET	900*900*0.5 PE-FOAM		A2100	97SA317150	PINCH LEVER TOT AS	T-MECHA	
CP03	97P5058120	BOX CARTON	541X453X175 SW-4 COLOR		B1910	97SA481050	PINCH ROLLER AS	D19(DAEJIN D2.67D**T4.5)	
CP04	47P4502205	LABEL SERIAL A	PAPER (42X12X1EA)		A2200	97SA318050	LC BRKT AS	T5-MECHA	
CP05	6520010020	STAPPLE	M20		B2040	97P885X146	CONN AS	A/C HEAD(RP) SHIELD	
03	PVMKASE470	CHASSIS MAIN AS	DF-L71D1D-BA		A2201	7273300611	SCREW TAPPTITE	TT3 BIN 3X6 MFZN	
A001	97P0613400	CHASSIS MAIN	HIPS(HB)		A2400	97SA317310	IDLER PLATE TOT AS	T2-MECHA	
A0011	97P080602	LEG	PLASTOMER		A2401	97S3108200	POLYWASHER	D2.6X06.0XT0.5	
A0013	97P0804403	LEG-B	HIPS(HB, NO SPRAY)		A2600	97S2909400	TABLE REEL	POM(MF20-03) BLACK	
A002	97P93617D0	LABEL SPEC	PE FILM(131*47)		A2700	97SA317200	TENSION LVR TOT AS	T-MECHA	
A006	97P0996300	EARTH BACK	SUS 304 CSP TO.2		A2800	97SA317400	S BRAKE AS	T-MECHA	
A013	97P09963003	PLATE AV BACK	PVC TO.3		A2900	97SA317510	T BRAKE AS	T2-MECHA	
A040	97P0482110	COVER TOP	SECC TO.6+PAINT		A3000	97S8023700	HEAD FE	HVHF00402A	
A040A	97P4219500	CUSHION TOP	EVA 20X14		A3001	7174301011	SCREW TAPPTITE	TT2 RND 3X10 MFZN	
A040B	97P4219700	CUSHION TOP PLATE	EVA(SOFT) T=1.75"		AD001	97P296101	DRUM PRICE AS	CYP-T610R	
A041	7173300813	SCREW TAPPTITE	TT2 BIN 3X8 MFCR		AD002	7003300511	SCREW MACHINE	BIN 3X5 MFZN	
A042	7173300813	SCREW TAPPTITE	TT2 BIN 3X8 MFCR		AF001	97SA281070	FIL AS	TCE-COMBO	
A051	7174300811	SCREW TAPPTITE	TT2 RND 3X8 MFZN		AF002	7273300511	SCREW TAPPTITE	TT3 BIN 3X5 MFZN	
A052	97P4220200	CUSHION LEG	EVA T4.0		AN002	2291131304	GREASE	DELUXE 5221G(NAM-YOUNG)	
A060	97P04822A9	COVER BOTTOM	SECC TO.8, SCART		M100C	97P93E0400	LABEL PGM	13X25 FD30000WVT-DW-2	
AJ01A	7173300812	SCREW TAPPTITE	TT2 BIN 3X8 BK		M200A	7174301211	SCREW TAPPTITE	TT2 RND 3X12 MFZN	
AP01A	7174300811	SCREW TAPPTITE	TT2 RND 3X8 MFZN		P101A	97P88F1M10	CABLE FFC	1.25 R 21P 100MM	
AT01A	7173300812	SCREW TAPPTITE	TT2 BIN 3X8 BK		P821A	97P885X234	CONN AS	4H-4H 100MM	
AZ01A	7174300811	SCREW TAPPTITE	TT2 RND 3X8 MFZN		PC05A	97P885X238	CONN AS(FLAT)	40H-40H 310MM FLAT F3	
AZ04A	7174300811	SCREW TAPPTITE	TT2 RND 3X8 MFZN		PD01A	97P885X235	CONN AS	6H-6H 380MM SHIELD	
D100	97P1RA3A80	REMOCON HANDSET AS	VR-F43AB0 GY3401A(AAA)		PW01	97P69D890B	CORD POWER	EU KKP-419C YFH800 1.7M	
DP08	97P882TF12	CABLE SCART	SCART-SCART 21P 1.2M		Z001	PVMPMSE470	PCB MAIN MANUAL AS	DF-L71D1D-BA	
DP09	97P51005R0	DISC	DVD+RW 4X 4.7GB PLASTIC		AM01	2193100801	SOLDER WIRE	SNPB-63.37 3P(NO FLUX)	
M01	97PP341006	PANEL FRONT AS	DF-L71D1D(DECO TYPE) HB		AM02	2193011100	SOLDER WIRE	60 SNA 1.2D	
B002	97P1634302	WINDOW FRONT-A	HMIRROR ACRYL T=3.0		AM03	2291050305	FLUX LIQUID	RF-800KN	
B008	7173300811	SCREW TAPPTITE	TT2 RND 3*8 MFZN		AM04	2291050306	FLUX THINNER	RF-800ADD	
M011	7174301011	SCREW TAPPTITE	TT2 RND 3X10 MFZN		AM05	2291140501	WAX COVER		
M021	7173401211	SCREW TAPPTITE	TT2 BIN 4X12 MFZN		AM06	97P93B2101	LABEL CD(PCB)	PAPER(13X25) ALL MODEL	
M022	7174301211	SCREW TAPPTITE	TT2 RND 3X12 MFZN		JK101	97P6318540	JACK PIN	YPJ611D 6P ANG TYPE	
M100	97P00021300	TOTAL DVD	BDRL04P		JK102	97Q6316200	JACK DIN	DUAE-9619	
M1000	PVDKARP866	DECK VCR AS(T50,FL)	DR-8610R NON		JK601	97P6313300	JACK DOUBLE SCART	DSAM-0302 2 LAYER	
A0100	97SA3332200	MAIN BASE AS	T4.5-MECHA		MA01	97P0478200	CASE SHI PREAMP	ET TO.4	
A0101	97S3102000	SCREW TAPPTITE	TT2 BIN P 2.6X7 MFZN		P100	97P62G08EX	CONN WAFER	GF102-31S-TS 31P ST	
A011	97P93B2102	LABEL CD(DECK)	PAPER(13X56) ALL MODEL		P100A	97P88FAX15	CABLE FFC	1.0K 31P 150MM	
A0200	97SA316500	S SLANT POLE AS	T-MECHA		P101	97P62G06DM	CONN FFC	GF120-21S-TS 21P ST	
A0300	97SA316600	T SLANT POLE AS	T-MECHA		P201	97P62Y1318	CONN WAFER	DVW250 PLUG 2.5MM 8P	
A0400	97S8104200	MOTOR CAPSTAN	F2QVB37K		P202	97P62T1482	CONN HOUSING	TMC-EX-B1 RECEP 2.0MM 2P	
A0600	97SA320500	AC HEAD AS	AC HEAD AS		P401	97P62G06DA	CONN FFC	GF120-10S-TS 10P ST	
B0610	97SA326800	HEAD A/C	HVMXA1101A(ALPS)		P501	97P62J012C	CONN B/B	JE612 PLUG 2.0 12P	
A0601	7003300511	SCREW MACHINE	BIN 3X5 MFZN		P502	97P6269000	CONN WAFER	00-8283-0612-00000	
A1000	97SA316800	L LOADING AS	T-MECHA		PJ601	97P885X237	CONN AS	13H-13S 100MM	
A1100	97SA316900	R LOADING AS	T-MECHA		RF101	97P7621800	TUNER 3 IN 1	LG TBI-SLQ3	
A1200	97S2709510	RACK LOADING	SECC T1.2		S501	97P0S02500	SENSOR REEL	RP1-303N	
A1201	7008301911	SCREW MACHINE	WAS M3*19 MFZN		S502	97P0S02500	SENSOR REEL	RP1-303N	

ELECTRICAL PARTSLIST

LOC	PARTS CODE	PARTS NAME	PARTS DESCRIPTION	REMARK	LOC	PARTS CODE	PARTS NAME	PARTS DESCRIPTION	REMARK
SW501	5S10104200	SW MODE	MMS010102MB0		C318	HCFF1052BA	C CHIP CERA	16V Y5V 1MF Z 1608	
SW510	5SD0101100	SW DETE	MXS00921MPC0		C319	HCFF1052BA	C CHIP CERA	16V Y5V 1MF Z 1608	
T201	560202692	COIL OSC	DEO-006		C325	HCFFH472BA	C CHIP CERA	25V Y5V 0.47MF Z 1608	
X051	5XJ18R4LAE	CRYSTAL QUARTZ	HC-49S 18.43200MHZ 30PP		C328	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
X501	5XJ17R7LAD	CRYSTAL QUARTZ	HC-49S 17.73447MHZ 25PPM		C330	HCFFH472BA	C CHIP CERA	25V Y5V 0.47MF Z 1608	
Z0011	PVMPJ1E470	MAIN CHIP MOUNT AAS	DF-L71D1D-BA		C333	HCFFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
C012	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608		C335	HCBK223KBA	C CHIP CERA	50V X7R 0.022MF K 1608	
C017	HCBK822KBA	C CHIP CERA	50V X7R 8200PF K 1608		C339	HQCK131JBA	C CHIP CERA	50V CH 130PF J 1608	
C018	HCBK822KBA	C CHIP CERA	50V X7R 8200PF K 1608		C340	HQCK221JBA	C CHIP CERA	50V CH 220PF J 1608	
C030	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608		C342	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
C052	HQCK209CBA	C CHIP CERA	50V CH 2PF C 1608		C391	HQCK330JBA	C CHIP CERA	50V CH 33PF J 1608	
C053	HQCK209CBA	C CHIP CERA	50V CH 2PF C 1608		C396	HQCK330JBA	C CHIP CERA	50V CH 33PF J 1608	
C054	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608		C397	HQCK330JBA	C CHIP CERA	50V CH 33PF J 1608	
C058	HCFFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		C398	HQCK330JBA	C CHIP CERA	50V CH 33PF J 1608	
C060	HCFFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		C404	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
C062	HCFFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		C505	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
C067	HCFFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		C506	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
C111	HQCK221JBA	C CHIP CERA	50V CH 220PF J 1608		C510	HCBK222KBA	C CHIP CERA	50V X7R 220PF K 1608	
C157	HCBK563KBA	C CHIP CERA	50V X7R 0.056MF K 1608		C511	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
C160	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608		C514	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608	
C161	HQCK220JBA	C CHIP CERA	50V CH 22PF J 1608		C515	HCFFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
C202	HCBK122KBA	C CHIP CERA	50V X7R 1200PF K 1608		C516	HCBK222KBA	C CHIP CERA	50V X7R 2200PF K 1608	
C203	HCBK122KBA	C CHIP CERA	50V X7R 1200PF K 1608		C517	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608	
C206	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608		C519	HCBK272KBA	C CHIP CERA	50V X7R 2700PF K 1608	
C212	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608		C520	HCFFH223ZBA	C CHIP CERA	25V Y5V 0.022MF Z 1608	
C215	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608		C521	HCFFH223ZBA	C CHIP CERA	25V Y5V 0.022MF Z 1608	
C220	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608		C527	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
C251	HCFFH472BA	C CHIP CERA	25V Y5V 0.47MF Z 1608		C528	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
C252	HCFFH472BA	C CHIP CERA	25V Y5V 0.47MF Z 1608		C529	HCFFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
C253	HCFFH472BA	C CHIP CERA	25V Y5V 0.47MF Z 1608		C531	HCBK150JBA	C CHIP CERA	50V CH 15PF J 1608	
C254	HCFFH472BA	C CHIP CERA	25V Y5V 0.47MF Z 1608		C532	HQCK150JBA	C CHIP CERA	50V CH 15PF J 1608	
C255	HCFFH472BA	C CHIP CERA	25V Y5V 0.47MF Z 1608		C596	HCFFH223ZBA	C CHIP CERA	25V Y5V 0.022MF Z 1608	
C256	HCFFH472BA	C CHIP CERA	25V Y5V 0.47MF Z 1608		C597	HCFFH223ZBA	C CHIP CERA	25V Y5V 0.022MF Z 1608	
C257	HCFFH472BA	C CHIP CERA	25V Y5V 0.47MF Z 1608		C598	HCFFH223ZBA	C CHIP CERA	25V Y5V 0.022MF Z 1608	
C258	HCFFH472BA	C CHIP CERA	25V Y5V 0.47MF Z 1608		C599	HCFFH223ZBA	C CHIP CERA	25V Y5V 0.022MF Z 1608	
C259	HCFFH472BA	C CHIP CERA	25V Y5V 0.47MF Z 1608		CSA1	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
C260	HCFFH472BA	C CHIP CERA	25V Y5V 0.47MF Z 1608		C612	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
C269	HCFFH223ZBA	C CHIP CERA	25V Y5V 0.022MF Z 1608		C613	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608	
C271	HCBK682KBA	C CHIP CERA	50V X7R 6800PF K 1608		C614	HQCK331JBA	C CHIP CERA	50V CH 330PF J 1608	
C277	HCBK682KBA	C CHIP CERA	50V X7R 6800PF K 1608		C615	HQCK331JBA	C CHIP CERA	50V CH 330PF J 1608	
C281	HCFFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		C616	HCFFH223ZBA	C CHIP CERA	25V Y5V 0.022MF Z 1608	
C282	HCBK122KBA	C CHIP CERA	50V X7R 1200PF K 1608		C625	HQCK331JBA	C CHIP CERA	50V CH 330PF J 1608	
C286	HCFFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		C626	HQCK331JBA	C CHIP CERA	50V CH 330PF J 1608	
C301	HCBK473KBA	C CHIP CERA	50V X7R 0.047MF K 1608		C627	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608	
C303	HCFFH223ZBA	C CHIP CERA	25V Y5V 0.022MF Z 1608		C628	HCFFH223ZBA	C CHIP CERA	25V Y5V 0.022MF Z 1608	
C306	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608		C630	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608	
C307	HCBK473KBA	C CHIP CERA	50V X7R 0.047MF K 1608		C631	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608	
C308	HCFFH223ZBA	C CHIP CERA	25V Y5V 0.022MF Z 1608		C632	HQCK330JBA	C CHIP CERA	50V CH 33PF J 1608	
C310	HCBK473KBA	C CHIP CERA	50V X7R 0.047MF K 1608		C633	HQCK330JBA	C CHIP CERA	50V CH 33PF J 1608	
C311	HCFFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		C636	HQCK101JBA	C CHIP CERA	50V CH 100PF J 1608	
C312	HCBK822KBA	C CHIP CERA	50V X7R 8200PF K 1608		C640	HQCK201JBA	C CHIP CERA	50V CH 200PF J 1608	
C314	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608		CD03	HCBK391KBA	C CHIP CERA	50V X7R 390PF K 1608	
C315	HCFFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CD04	HCBK391KBA	C CHIP CERA	50V X7R 390PF K 1608	
C316	HQCK561JBA	C CHIP CERA	50V CH 560PF J 1608		CD103	HCFFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
C317	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608		CD104	HCFFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	

ELECTRICAL PARTSLIST									
----------------------	--	--	--	--	--	--	--	--	--

LOC	PARTS CODE	PARTS NAME	PARTS DESCRIPTION	REMARK	LOC	PARTS CODE	PARTS NAME	PARTS DESCRIPTION	REMARK
CD105	HCFH1042BA	C CHIP CERA	25V Y5V 0.1MF Z 1608		R223	HRFS182JBA	R CHIP	1/16 1.8K OHM J 1608	
CD112	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608		R224	HRFS470JBA	R CHIP	1/16 20K OHM J 1608	
CD119	HCKQ221JBA	C CHIP CERA	50V CH 220PF J 1608		R225	HRFS229JBA	R CHIP	1/16 2.2 OHM J 1608	
CD123	HCBK391KBA	C CHIP CERA	50V X7R 390PF K 1608		R226	HRFS229JBA	R CHIP	1/16 2.2 OHM J 1608	
CD126	HCBK391KBA	C CHIP CERA	50V X7R 390PF K 1608		R231	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
CD128	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608		R270	HRFS333JBA	R CHIP	1/16 33K OHM J 1608	
IC051	1MSP3407G3	IC A2	MSP3407G-V3		R271	HRFS470JBA	R CHIP	1/16 47 OHM J 1608	
IC101	1PCM1802DD	IC CHIP AUDIO A/D CONV	PCM1802D BR SSOP		R301	HRFS122JBA	R CHIP	1/16 1.2K OHM J 1608	
IC102	1PCM1754DD	IC CHIP DAC	PCM1754DBQ 16PIN		R307	HRFS392JBA	R CHIP	1/16 3.9K OHM J 1608	
IC103	1LA73054-E	IC CHIP VIDEO DRIVER	LA73054 6 CHANNEL		R308	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	
IC151	1LC74793	IC CHIP VPS	LC74793JM		R309	HRFS155JBA	R CHIP	1/16 1.5M OHM J 1608	
IC251	1TDA9605H-	IC HI-FI	TDA9605H		R310	HRFS155JBA	R CHIP	1/16 1.5M OHM J 1608	
IC301	1LA71750M-	IC AV-1 CHIP	LA71750M		R318	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	
IC501	168K37760H	IC MICOM	M37760EFGP		R319	HRFS105JBA	R CHIP	1/16 1M OHM J 1608	
IC502	14CAT2416J	IC CHIP EEPROM	CAT24WC16J(16K SOP)		R320	HRFS471JBA	R CHIP	1/16 470 OHM J 1608	
IO601	1HEF4052BD	IC CHIP SW	HEF4052B		R326	HRFS472JBA	R CHIP	1/16 4.7K OHM J 1608	
IO602	1HEF4052BD	IC CHIP SW	HEF4052B		R327	HRFS332JBA	R CHIP	1/16 3.3K OHM J 1608	
ICD02	1KA4558D	IC OP AMP	KA4558D(8 SOP)		R328	HRFS104JBA	R CHIP	1/16 100K OHM J 1608	
L607	HLX1210001	BEAD CHIP	TB201209Z121		R330	HRFS223JBA	R CHIP	1/16 22K OHM J 1608	
L608	HLX1210001	BEAD CHIP	TB201209Z121		R331	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
Q106	T2SC2412KB	TR CHIP	2SC2412K-T146-BR		R333	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	
Q207	T2SA1037KB	TR CHIP	2SA1037AKT146-R		R337	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
Q208	T2SC2412KB	TR CHIP	2SC2412K-T146-BR		R347	HRFS101JBA	R CHIP	1/16 100 OHM J 1608	
Q224	TKSR2104-B	TR CHIP	KSR2104		R349	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	
Q225	T2SC2412KB	TR CHIP	2SC2412K-T146-BR		R350	HRFS221JBA	R CHIP	1/16 220 OHM J 1608	
Q227	T2SC2412KB	TR CHIP	2SC2412K-T146-BR		R370	HRFS473JBA	R CHIP	1/16 4.7K OHM J 1608	
Q229	T2SA1037KB	TR CHIP	2SA1037AKT146-R		R385	HRFS101JBA	R CHIP	1/16 100 OHM J 1608	
Q302	T2SC2412KB	TR CHIP	2SC2412K-T146-BR		R386	HRFS101JBA	R CHIP	1/16 100 OHM J 1608	
Q303	T2SA1037KB	TR CHIP	2SA1037AKT146-R		R388	HRFS474JBA	R CHIP	1/16 470K OHM J 1608	
Q304	T2SC2412KB	TR CHIP	2SC2412K-T146-BR		R401	HRFS473JBA	R CHIP	1/16 47K OHM J 1608	
Q306	T2SC2412KB	TR CHIP	2SC2412K-T146-BR		R475	HRFS101JBA	R CHIP	1/16 100 OHM J 1608	
Q311	T2SC2412KB	TR CHIP	2SC2412K-T146-BR		R510	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
Q333	T2SA1037KB	TR CHIP	2SA1037AKT146-R		R511	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
Q602	TKSR1104-B	TR CHIP	KSR1104		R512	HRFS472JBA	R CHIP	1/16 4.7K OHM J 1608	
Q603	TKSR1104-B	TR CHIP	KSR1104		R520	HRFS561JBA	R CHIP	1/16 560 OHM J 1608	
Q670	T2SA1037KB	TR CHIP	2SA1037AKT146-R		R521	HRFS561JBA	R CHIP	1/16 560 OHM J 1608	
Q671	T2SA1037KB	TR CHIP	2SA1037AKT146-R		R524	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
QD05	T2SC2412KB	TR CHIP	2SC2412K-T146-BR		R526	HRFS273JBA	R CHIP	1/16 27K OHM J 1608	
QD07	T2SC2412KB	TR CHIP	2SC2412K-T146-BR		R527	HRFS273JBA	R CHIP	1/16 27K OHM J 1608	
R055	HRFS562JBA	R CHIP	1/16 5.6K OHM J 1608		R528	HRFS201JBA	R CHIP	1/16 200 OHM J 1608	
R056	HRFS562JBA	R CHIP	1/16 5.6K OHM J 1608		R529	HRFS201JBA	R CHIP	1/16 200 OHM J 1608	
R108	HRFS750JBA	R CHIP	1/16 75 OHM J 1608		R530	HRFS244JBA	R CHIP	1/16W 240K OHM J 1608	
R127	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		R531	HRFS244JBA	R CHIP	1/16W 240K OHM J 1608	
R138	HRFS101JBA	R CHIP	1/16 100 OHM J 1608		R532	HRFS244JBA	R CHIP	1/16W 240K OHM J 1608	
R152	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		R533	HRFS244JBA	R CHIP	1/16W 240K OHM J 1608	
R155	HRFS272JBA	R CHIP	1/16 2.7K OHM J 1608		R534	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
R202	HRFS334JBA	R CHIP	1/16 330K OHM J 1608		R536	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
R203	HRFS181JBA	R CHIP	1/16 180 OHM J 1608		R542	HRFS203JBA	R CHIP	1/16 20K OHM J 1608	
R205	HRFS752JBA	R CHIP	1/16 7.5K OHM J 1608		R543	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
R206	HRFS273JBA	R CHIP	1/16 27K OHM J 1608		R544	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	
R207	HRFS513JBA	R CHIP	1/16 51K OHM J 1608		R545	HRFS121JBA	R CHIP	1/16 120 OHM J 1608	
R209	HRFS123JBA	R CHIP	1/16 12K OHM J 1608		R546	HRFS121JBA	R CHIP	1/16 120 OHM J 1608	
R215	HRFS911JBA	R CHIP	1/16 910 OHM J 1608		R547	HRFS332JBA	R CHIP	1/16 3.3K OHM J 1608	
R217	HRFS223JBA	R CHIP	1/16 22K OHM J 1608		R549	HRFS474JBA	R CHIP	1/16 470K OHM J 1608	
R218	HRFS222JBA	R CHIP	1/16 2.2K OHM J 1608		R550	HRFS472JBA	R CHIP	1/16 4.7K OHM J 1608	

ELECTRICAL PARTSLIST									
----------------------	--	--	--	--	--	--	--	--	--

LOC	PARTS CODE	PARTS NAME	PARTS DESCRIPTION	REMARK	LOC	PARTS CODE	PARTS NAME	PARTS DESCRIPTION	REMARK
R551	HRFS104JBA	R CHIP	1/16 100K OHM J 1608		RJ118	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
R553	HRFS203JBA	R CHIP	1/16 20K OHM J 1608		RJ120	HRF8000-EA	R CHIP	1/8 0 OHM 3216	
R587	HRFS000-BA	R CHIP	1/16 0 OHM 1608		RJ122	HRF8000-EA	R CHIP	1/8 0 OHM 3216	
R601	HRFS153JBA	R CHIP	1/16 15K OHM J 1608		RJ201	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
R602	HRFS391JBA	R CHIP	1/16 390 OHM J 1608		RJ232	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
R603	HRFS391JBA	R CHIP	1/16 390 OHM J 1608		RJ414	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
R610	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		RJ444	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
R611	HRFS750JBA	R CHIP	1/16 75 OHM J 1608		RJ501	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
R612	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		RJ645	HRF8000-EA	R CHIP	1/8 0 OHM 3216	
R624	HRFS474JBA	R CHIP	1/16 470K OHM J 1608		ZD012	PVMPJRE470	PCB MAIN RADIAL AS	DF-L71D1D-BA	
R627	HRFS474JBA	R CHIP	1/16 470K OHM J 1608		C004	CEXF1A101A	C ELECTRO	10V RSM 100MF 6.3X7	
R629	HRFS474JBA	R CHIP	1/16 470K OHM J 1608		C011	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
R630	HRFS474JBA	R CHIP	1/16 470K OHM J 1608		C013	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
R632	HRFS273JBA	R CHIP	1/16 27K OHM J 1608		C016	CEXF1H478A	C ELECTRO	50V RSM 0.47MF 4X7	
R635	HRFS203JBA	R CHIP	1/16 20K OHM J 1608		C024	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
R636	HRFS203JBA	R CHIP	1/16 20K OHM J 1608		C025	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
R653	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		C031	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
R677	HRFS221JBA	R CHIP	1/16 220 OHM J 1608		C055	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
R682	HRFS472JBA	R CHIP	1/16 4.7K OHM J 1608		C057	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
R745	HRFS203JBA	R CHIP	1/16 20K OHM J 1608		C059	CEXF1H339A	C ELECTRO	50V RSM 3.3MF 4X7	
RD10	HRFS112JBA	R CHIP	1/16 1.1K OHM J 1608		C061	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
RD11	HRFS102JBA	R CHIP	1/16 1K OHM J 1608		C063	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP	
RD12	HRFS113JBA	R CHIP	1/16 11K OHM J 1608		C064	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
RD13	HRFS223JBA	R CHIP	1/16 22K OHM J 1608		C065	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
RD14	HRFS471JBA	R CHIP	1/16 470 OHM J 1608		C066	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
RD17	HRFS471JBA	R CHIP	1/16 470 OHM J 1608		C068	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
RD18	HRFS102JBA	R CHIP	1/16 1K OHM J 1608		C123	CEXF1A471V	C ELECTRO	10V RSS 470MF (8X11.5) TP	
RD20	HRFS223JBA	R CHIP	1/16 22K OHM J 1608		C132	CEXF1A471V	C ELECTRO	10V RSS 470MF (8X11.5) TP	
RD21	HRFS471JBA	R CHIP	1/16 470 OHM J 1608		C138	CEXF1A471V	C ELECTRO	10V RSS 470MF (8X11.5) TP	
RD22	HRFS471JBA	R CHIP	1/16 470 OHM J 1608		C151	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
RD23	HRFS102JBA	R CHIP	1/16 1K OHM J 1608		C152	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP	
RD34	HRFS113JBA	R CHIP	1/16 11K OHM J 1608		C154	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP	
RD35	HRFS112JBA	R CHIP	1/16 1.1K OHM J 1608		C158	CEXF1H479A	C ELECTRO	50V RSM 4.7MF 4X7	
RD63	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		C201	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
RD64	HRFS102JBA	R CHIP	1/16 1K OHM J 1608		C204	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)	
RD65	HRFS102JBA	R CHIP	1/16 1K OHM J 1608		C205	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
RJ001	HRFS000-BA	R CHIP	1/16 0 OHM 1608		C208	CEXF1H479A	C ELECTRO	50V RSM 4.7MF 4X7	
RJ002	HRF8000-EA	R CHIP	1/8 0 OHM 3216		C210	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)	
RJ004	HRF8000-EA	R CHIP	1/8 0 OHM 3216		C213	CEXF1H478A	C ELECTRO	50V RSM 0.47MF 4X7	
RJ006	HRFS000-BA	R CHIP	1/16 0 OHM 1608		C214	CEXF1C330A	C ELECTRO	16V RSM 33MF (6.3X7) TP	
RJ101	HRFS000-BA	R CHIP	1/16 0 OHM 1608		C219	CMXM2A243J	C MYLAR	100V 0.024MF J (TP)	
RJ102	HRFS000-BA	R CHIP	1/16 0 OHM 1608		C222	CMXM2A333J	C MYLAR	100V 0.033MF J (TP)	
RJ103	HRFS000-BA	R CHIP	1/16 0 OHM 1608		C223	CEXF1H479A	C ELECTRO	50V RSM 4.7MF 4X7	
RJ104	HRF8000-EA	R CHIP	1/8 0 OHM 3216		C225	CMXM2A333J	C MYLAR	100V 0.033MF J (TP)	
RJ105	HRF8000-EA	R CHIP	1/8 0 OHM 3216		C227	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
RJ106	HRF8000-EA	R CHIP	1/8 0 OHM 3216		C228	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
RJ107	HRF8000-EA	R CHIP	1/8 0 OHM 3216		C261	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
RJ108	HRF8000-EA	R CHIP	1/8 0 OHM 3216		C262	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
RJ110	HRF8000-EA	R CHIP	1/8 0 OHM 3216		C263	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
RJ111	HRF8000-EA	R CHIP	1/8 0 OHM 3216		C264	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
RJ112	HRF8000-EA	R CHIP	1/8 0 OHM 3216		C270	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
RJ113	HRFS000-BA	R CHIP	1/16 0 OHM 1608		C272	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
RJ114	HRFS000-BA	R CHIP	1/16 0 OHM 1608		C273	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
RJ115	HRF8000-EA	R CHIP	1/8 0 OHM 3216		C274	CEXF1H229A	C ELECTRO	50V RSM 2.2MF (4X7) TP	
RJ117	HRF8000-EA	R CHIP	1/8 0 OHM 3216		C275	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	

ELECTRICAL PARTSLIST									
LOC	PARTS CODE	PARTS NAME	PARTS DESCRIPTION	REMARK	LOC	PARTS CODE	PARTS NAME	PARTS DESCRIPTION	REMARK
C276	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		CD116	CEXF1A471V	C ELECTRO	10V RSS 470MF (8X11.5) TP	
C278	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7		CD117	CEXF1A471V	C ELECTRO	10V RSS 470MF (8X11.5) TP	
C279	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		CD121	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)	
C283	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		CD124	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)	
C292	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7		CD127	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
C302	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP		CD60	CEXF1A471V	C ELECTRO	10V RSS 470MF (8X11.5) TP	
C304	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP		CD51	CEXF1A471V	C ELECTRO	10V RSS 470MF (8X11.5) TP	
C305	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		CD52	CEXF1A471V	C ELECTRO	10V RSS 470MF (8X11.5) TP	
C309	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP		L002	5CPX100J2T	COIL PEAKING	10UH(BRN-BLK)	
C313	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP		L003	5CPX100J2T	COIL PEAKING	10UH(BRN-BLK)	
C320	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		L005	5CPX100J2T	COIL PEAKING	10UH(BRN-BLK)	
C322	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7		L006	5CPX100J2T	COIL PEAKING	10UH(BRN-BLK)	
C327	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		L051	5CPX100J2T	COIL PEAKING	10UH(BRN-BLK)	
C331	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP		L052	5CPX101J2T	COIL PEAKING	100UH(BRN-BRN)	
C332	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7		L053	5CPX100J2T	COIL PEAKING	10UH(BRN-BLK)	
C334	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		L101	5CPX101J2T	COIL PEAKING	100UH(BRN-BRN)	
C336	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		L201	5CPX101J2T	COIL PEAKING	100UH(BRN-BRN)	
C338	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP		L203	5CPX101J2T	COIL PEAKING	100UH(BRN-BRN)	
C343	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		L250	5CPX101J2T	COIL PEAKING	100UH(BRN-BRN)	
C389	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7		L251	5CPX101J2T	COIL PEAKING	100UH(BRN-BRN)	
C402	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP		L301	5CPX100J2T	COIL PEAKING	10UH(BRN-BLK)	
C403	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		L302	5CPX100J2T	COIL PEAKING	10UH(BRN-BLK)	
C504	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		L303	5CPX100J2T	COIL PEAKING	10UH(BRN-BLK)	
C808	CEXF1E221V	C ELECTRO	25V RSS 220MF (8X11.5) TP		L304	5CPX100J2T	COIL PEAKING	10UH(BRN-BLK)	
C512	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		L305	5CPX100J2T	COIL PEAKING	10UH(BRN-BLK)	
C513	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7		L401	5CPX100J2T	COIL PEAKING	10UH(BRN-BLK)	
C524	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		L601	5CPX100J2T	COIL PEAKING	10UH(BRN-BLK)	
C535	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		L603	5CPX100J2T	COIL PEAKING	10UH(BRN-BLK)	
C644	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		Q101	TZTA1266Y-	TR	KTA1266Y-(AUTO)(1015Y)	
C617	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		Q102	TZTA1266Y-	TR	KTA1266Y-(AUTO)(1015Y)	
C618	CEXF1A471V	C ELECTRO	10V RSS 470MF (8X11.5) TP		Q103	TZTA1266Y-	TR	KTA1266Y-(AUTO)(1015Y)	
C620	CEXF1A471V	C ELECTRO	10V RSS 470MF (8X11.5) TP		Q104	TZTA1266Y-	TR	KTA1266Y-(AUTO)(1015Y)	
C635	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7		Q105	TZTA1266Y-	TR	KTA1266Y-(AUTO)(1015Y)	
C637	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7		Q112	TZTA1266Y-	TR	KTA1266Y-(AUTO)(1015Y)	
C641	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7		Q113	TZTC3198Y-	TRANSISTOR	KTC3198Y-(1815Y) (AUTO)	
C642	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7		Q201	TZTC3198Y-	TRANSISTOR	KTC3198Y-(1815Y) (AUTO)	
C643	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7		Q203	TZTC3202Y-	TR	KTC3202Y (AUTO)(1959Y)	
C644	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7		Q204	TZTC3198Y-	TRANSISTOR	KTC3198Y-(1815Y) (AUTO)	
C645	CEXF1E470V	C ELECTRO	25V RSS 47MF (6X11) TP		Q205	TZTC3198Y-	TRANSISTOR	KTC3198Y-(1815Y) (AUTO)	
C647	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7		Q206	TZTA1266Y-	TR	KTA1266Y-(AUTO)(1015Y)	
C648	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7		Q850	TZTC3205Y-	TR	KTC3205Y (2236Y)	
C649	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7		Q851	TZTC3205Y-	TR	KTC3205Y (2236Y)	
C650	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7		Q853	TZTA1273Y-	TR	KTA1273Y(966Y)	
C857	CEXF1E101V	C ELECTRO	25V RSS 100MF (6.3X11) TP		Q856	TZTC3198Y-	TRANSISTOR	KTC3198Y-(1815Y) (AUTO)	
C858	CEXF1H470V	C ELECTRO	50V RSS 47MF (6.3X11) TP		QD03	TZTC3198Y-	TRANSISTOR	KTC3198Y-(1815Y) (AUTO)	
C859	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		QD04	TZTA1266Y-	TR	KTA1266Y-(AUTO)(1015Y)	
C862	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		QD06	TZTC3198Y-	TRANSISTOR	KTC3198Y-(1815Y) (AUTO)	
CD01	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)		QD50	TZTA1266Y-	TR	KTA1266Y-(AUTO)(1015Y)	
CD02	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)		QD51	TZTA1266Y-	TR	KTA1266Y-(AUTO)(1015Y)	
CD106	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7		QD52	TZTA1266Y-	TR	KTA1266Y-(AUTO)(1015Y)	
CD107	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		X301	5XE4R433TB	CRYSTAL QUARTZ	HC-49U 4.433619MHz 15PPM	
CD108	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		Z0013	PVMPJAE470	PCB MAIN AXIAL AS	DF-L71D1D-BA	
CD109	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		AM31	2TM14006LB	TAPE MASKING	3M #232 6.0X2000M	
CD111	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		AM31A	2TM110620R	TAPE MASKING	SI-600N RED	
CD114	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7		AM31B	2TM1106200	TAPE MASKING	SI-600N	

ELECTRICAL PARTSLIST									
LOC	PARTS CODE	PARTS NAME	PARTS DESCRIPTION	REMARK	LOC	PARTS CODE	PARTS NAME	PARTS DESCRIPTION	REMARK
CD05	CBZP1C103M	C CERA SEMI	16V YSS 0.01MF M (AXIAL)		JP260	85801060TA	WIRE COPPER	0.6X52MM TAPING	
CD10	CBZP1C103M	C CERA SEMI	16V YSS 0.01MF M (AXIAL)		JP262	85801060TA	WIRE COPPER	0.6X52MM TAPING	
CD14	CCZB1H101K	C CERA	50V B 100PF K (AXIAL)		JP315	85801060TA	WIRE COPPER	0.6X52MM TAPING	
CD19	CBZP1C103M	C CERA SEMI	16V YSS 0.01MF M (AXIAL)		JP337	85801060TA	WIRE COPPER	0.6X52MM TAPING	
CD32	CBZP1C103M	C CERA SEMI	16V YSS 0.01MF M (AXIAL)		JP346	85801060TA	WIRE COPPER	0.6X52MM TAPING	
CD51	CZSL1H090J	C CERA	50V SL 39PF J (AXIAL)		JP350	85801060TA	WIRE COPPER	0.6X52MM TAPING	
CD56	CCZF1H104Z	C CERA	HKF 50V 0.1MF Z AXIAL		JP351	85801060TA	WIRE COPPER	0.6X52MM TAPING	
C153	CBZP1C103M	C CERA SEMI	16V YSS 0.01MF M (AXIAL)		JP362	85801060TA	WIRE COPPER	0.6X52MM TAPING	
C159	CBZP1C103M	C CERA SEMI	16V YSS 0.01MF M (AXIAL)		JP500	85801060TA	WIRE COPPER	0.6X52MM TAPING	
C207	CCZF1H104Z	C CERA	HKF 50V 0.1MF Z AXIAL		JP621	85801060TA	WIRE COPPER	0.6X52MM TAPING	
C284	CCZF1H104Z	C CERA	HKF 50V 0.1MF Z AXIAL		JP622	85801060TA	WIRE COPPER	0.6X52MM TAPING	
C321	CCZF1H104Z	C CERA	HKF 50V 0.1MF Z AXIAL		L151	5CPZ569K02	COIL PEAKING	5.6UH K (AXIAL 3.5MM)	
C323	CCZF1H104Z	C CERA	HKF 50V 0.1MF Z AXIAL		L340	5CPZ229K02	COIL PEAKING	2.2UH K(AXIAL 3.5MM)	
C324	CCZF1H104Z	C CERA	HKF 50V 0.1MF Z AXIAL		L341	5CPZ229K02	COIL PEAKING	2.2UH K(AXIAL 3.5MM)	
C326	CCZF1H104Z	C CERA	HKF 50V 0.1MF Z AXIAL		L342	5CPZ229K02	COIL PEAKING	2.2UH K(AXIAL 3.5MM)	
C328	CCZF1H104Z	C CERA	HKF 50V 0.1MF Z AXIAL		L602	5CPZ229K02	COIL PEAKING	2.2UH K(AXIAL 3.5MM)	
C337	CBZP1C103M	C CERA SEMI	16V YSS 0.01MF M (AXIAL)		L604	5CPZ229K02	COIL PEAKING	2.2UH K(AXIAL 3.5MM)	
C341	CCZF1H104Z	C CERA	HKF 50V 0.1MF Z AXIAL		L605	5CPZ229K02	COIL PEAKING	2.2UH K(AXIAL 3.5MM)	
C359	CCZF1H104Z	C CERA	HKF 50V 0.1MF Z AXIAL		L606	5CPZ229K02	COIL PEAKING	2.2UH K(AXIAL 3.5MM)	
C401	CCZF1H104Z	C CERA	HKF 50V 0.1MF Z AXIAL		R005	RD-A2221J-	R CARBON FILM	1/6 220 OHM J	
C509	CBZP1C103M	C CERA SEMI	16V YSS 0.01MF M (AXIAL)		R006	RD-A2221J-	R CARBON FILM	1/6 220 OHM J	
C518	CBZP1C103M	C CERA SEMI	16V YSS 0.01MF M (AXIAL)		R051	RD-AZ751J-	R CARBON FILM	1/6 750 OHM J	
C536	CBZP1C103M	C CERA SEMI	16V YSS 0.01MF M (AXIAL)		R052	RD-AZ751J-	R CARBON FILM	1/6 750 OHM J	
CD101	CCZF1H104Z	C CERA	HKF 50V 0.1MF Z AXIAL		R054	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
CD102	CCZF1H104Z	C CERA	HKF 50V 0.1MF Z AXIAL		R103	RD-AZ330J-	R CARBON FILM	1/6 33 OHM J	
CD110	CBZP1C103M	C CERA SEMI	16V YSS 0.01MF M (AXIAL)		R114	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J	
CD120	CCZB1H331K	C CERA	50V B 330PF K (AXIAL)		R115	RD-AZ751J-	R CARBON FILM	1/4 750 OHM J	
D001	DZNA148 -	DIODE	1N4148 AUTO 52MM		R118	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J	
D003	DZNA4003 -	DIODE	1N4003		R119	RD-AZ751J-	R CARBON FILM	1/4 750 OHM J	
D004	DZNA4003 -	DIODE	1N4003		R121	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J	
D101	DZNA148 -	DIODE	1N4148 AUTO 52MM		R122	RD-AZ751J-	R CARBON FILM	1/4 750 OHM J	
D301	DZNA148 -	DIODE	1N4148 AUTO 52MM		R147	RD-AZ153J-	R CARBON FILM	1/6 15K OHM J	
D518	DZNA148 -	DIODE	1N4148 AUTO 52MM		R153	RD-AZ562J-	R CARBON FILM	1/6 5.6K OHM J	
D519	DZNA148 -	DIODE	1N4148 AUTO 52MM		R154	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
D520	DZNA148 -	DIODE	1N4148 AUTO 52MM		R156	RD-AZ330J-	R CARBON FILM	1/6 33 OHM J	
D523	DZNA4003 -	DIODE	1N4003		R168	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
D525	DZNA4004 -	DIODE	1N4004(AUTO)		R201	RD-AZ273J-	R CARBON FILM	1/6 27K OHM J	
D601	DZUZ13BSB-	DIODE ZENER	UZ-13BSB(12.59-13.16V)		R204	RD-AZ133J-	R CARBON FILM	1/6 13K OHM J	
D602	DZUZ13BSB-	DIODE ZENER	UZ-13BSB(12.59-13.16V)		R208	RD-AZ362J-	R CARBON FILM	1/6 3.6K OHM J	
D603	DZNA148 -	DIODE	1N4148 AUTO 52MM		R210	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J	
D604	DZUZ13BSB-	DIODE ZENER	UZ-13BSB(12.59-13.16V)		R214	RD-AZ511J-	R CARBON FILM	1/6 510 OHM J	
D605	DZUZ13BSB-	DIODE ZENER	UZ-13BSB(12.59-13.16V)		R216	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
D606	DZNA148 -	DIODE	1N4148 AUTO 52MM		R219	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
D630	DZNA148 -	DIODE	1N4148 AUTO 52MM		R222	RD-AZ561J-	R CARBON FILM	1/6 560 OHM J	
D650	DZUZ3BSB-	DIODE ZENER	UZ-3BSB(30.32-31.38V)		R227	RD-AZ330J-	R CARBON FILM	1/6 33 OHM J	
D651	DZUZ13BSB-	DIODE ZENER	UZ-13BSB(12.59-13.16V)		R229	RD-AZ202J-	R CARBON FILM	1/6 2K OHM J	
D652	DZUZ5R1BSB	DIODE ZENER	UZ-5.1BSB(4.97-5.18V)		R230	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
D653	DZG0ZP18B-	DIODE ZENER	G0ZP18B1		R232	RD-AZ183J-	R CARBON FILM	1/6 18K OHM J	
D654	DZNA148 -	DIODE	1N4148 AUTO 52MM		R234	RD-AZ330J-	R CARBON FILM	1/6 33 OHM J	
D658	DZUZ3R9BSA	DIODE ZENER	UZ-3.9BSA(3.77-3.98V)		R255	RD-AZ333J-	R CARBON FILM	1/6 33K OHM J	
DD50	DZNA148 -	DIODE	1N4148 AUTO 52MM		R261	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
JP188	85801060TA	WIRE COPPER	0.6X52MM TAPING		R264	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
JP241	85801060TA	WIRE COPPER	0.6X52MM TAPING		R265	RD-AZ330J-	R CARBON FILM	1/6 33 OHM J	
JP242	85801060TA	WIRE COPPER	0.6X52MM TAPING		R266	RD-AZ333J-	R CARBON FILM	1/6 33K OHM J	
JP251	85801060TA	WIRE COPPER	0.6X52MM TAPING		R267	RD-AZ272J-	R CARBON FILM	1/6 2.7K OHM J	

ELECTRICAL PARTSLIST

LOC	PARTS CODE	PARTS NAME	PARTS DESCRIPTION	REMARK	LOC	PARTS CODE	PARTS NAME	PARTS DESCRIPTION	REMARK
R268	RN-AZ3902F	R METAL FILM	1/6 39K OHM F		R539	RD-AZ431J	R CARBON FILM	1/6 430 OHM J	
R269	RD-AZ272J	R CARBON FILM	1/6 2.7K OHM J		R540	RN-AZ103F	R METAL FILM	1/6 10K OHM F	
R276	RD-AZ183J	R CARBON FILM	1/6 18K OHM J		R541	RN-AZ103F	R METAL FILM	1/6 10K OHM F	
R277	RD-AZ511J	R CARBON FILM	1/6 510 OHM J		R548	85801060TA	WIRE COPPER	0.06X2MM TAPING	
R278	RD-AZ511J	R CARBON FILM	1/6 510 OHM J		R554	RD-4Z751J	R CARBON FILM	1/4 750 OHM J	
R302	RD-AZ822J	R CARBON FILM	1/6 8.2K OHM J		R555	RD-4Z751J	R CARBON FILM	1/4 750 OHM J	
R305	RD-AZ330J	R CARBON FILM	1/6 33 OHM J		R556	RD-AZ221J	R CARBON FILM	1/6 220 OHM J	
R305A	RD-AZ474J	R CARBON FILM	1/6 470K OHM J		R567	RD-AZ221J	R CARBON FILM	1/6 220 OHM J	
R306	RD-AZ434J	R CARBON FILM	1/6 430K OHM J		R569	RD-AZ750J	R CARBON FILM	1/6 75 OHM J	
R312	RD-AZ152J	R CARBON FILM	1/6 1.5K OHM J		R560	RD-AZ750J	R CARBON FILM	1/6 75 OHM J	
R313	RD-AZ152J	R CARBON FILM	1/6 1.5K OHM J		R604	RD-AZ512J	R CARBON FILM	1/6 5.1K OHM J	
R314	RD-AZ103J	R CARBON FILM	1/6 10K OHM J		R605	RD-AZ512J	R CARBON FILM	1/6 5.1K OHM J	
R315	RD-AZ183J	R CARBON FILM	1/6 18K OHM J		R606	RD-AZ102J	R CARBON FILM	1/6 1K OHM J	
R316	RD-AZ183J	R CARBON FILM	1/6 18K OHM J		R607	RD-AZ512J	R CARBON FILM	1/6 5.1K OHM J	
R317	RD-AZ221J	R CARBON FILM	1/6 220 OHM J		R608	RD-AZ512J	R CARBON FILM	1/6 5.1K OHM J	
R321	RD-AZ102J	R CARBON FILM	1/6 1K OHM J		R614	RD-AZ750J	R CARBON FILM	1/6 75 OHM J	
R322	RD-AZ272J	R CARBON FILM	1/6 2.7K OHM J		R615	RD-AZ750J	R CARBON FILM	1/6 75 OHM J	
R323	RD-AZ682J	R CARBON FILM	1/6 6.8K OHM J		R618	RD-AZ301J	R CARBON FILM	1/6 300 OHM J	
R325	RD-AZ122J	R CARBON FILM	1/6 1.2K OHM J		R619	RD-AZ301J	R CARBON FILM	1/6 300 OHM J	
R329	RD-AZ102J	R CARBON FILM	1/6 1K OHM J		R621	RD-AZ103J	R CARBON FILM	1/6 10K OHM J	
R351	RD-AZ161J	R CARBON FILM	1/6 160 OHM J		R622	RD-AZ474J	R CARBON FILM	1/6 470K OHM J	
R356	RD-AZ221J	R CARBON FILM	1/6 220 OHM J		R623	RD-AZ474J	R CARBON FILM	1/6 470K OHM J	
R379	RD-AZ330J	R CARBON FILM	1/6 33 OHM J		R625	RD-AZ474J	R CARBON FILM	1/6 470K OHM J	
R382	RD-AZ330J	R CARBON FILM	1/6 33 OHM J		R637	RD-AZ103J	R CARBON FILM	1/6 10K OHM J	
R387	RD-AZ101J	R CARBON FILM	1/6 100 OHM J		R638	RD-AZ103J	R CARBON FILM	1/6 10K OHM J	
R399	RD-AZ102J	R CARBON FILM	1/6 1K OHM J		R670	RD-4Z751J	R CARBON FILM	1/4 750 OHM J	
R400	RD-AZ101J	R CARBON FILM	1/6 100 OHM J		R671	RD-4Z751J	R CARBON FILM	1/4 750 OHM J	
R402	RD-AZ393J	R CARBON FILM	1/6 39K OHM J		R678	RD-AZ221J	R CARBON FILM	1/6 220 OHM J	
R403	RD-AZ122J	R CARBON FILM	1/6 1.2K OHM J		R680	RD-AZ301J	R CARBON FILM	1/6 300 OHM J	
R404	RD-AZ101J	R CARBON FILM	1/6 100 OHM J		R681	RD-AZ301J	R CARBON FILM	1/6 300 OHM J	
R405	RD-AZ101J	R CARBON FILM	1/6 100 OHM J		R715	RD-AZ101J	R CARBON FILM	1/6 100 OHM J	
R420	RD-AZ184J	R CARBON FILM	1/6 180K OHM J		R850	RD-AZ272J	R CARBON FILM	1/6 2.7K OHM J	
R423	RD-AZ153J	R CARBON FILM	1/6 15K OHM J		R851	RD-AZ272J	R CARBON FILM	1/6 2.7K OHM J	
R424	RD-AZ201J	R CARBON FILM	1/6 200 OHM J		R853	RD-4Z751J	R CARBON FILM	1/4 750 OHM J	
R425	RD-AZ330J	R CARBON FILM	1/6 33 OHM J		R854	RD-AZ303J	R CARBON FILM	1/6 30K OHM J	
R426	RD-AZ330J	R CARBON FILM	1/6 33 OHM J		R856	RD-AZ472J	R CARBON FILM	1/6 4.7K OHM J	
R427	RD-AZ330J	R CARBON FILM	1/6 33 OHM J		R857	RD-AZ202J	R CARBON FILM	1/6 2K OHM J	
R428	RD-AZ330J	R CARBON FILM	1/6 33 OHM J		R858	RD-AZ202J	R CARBON FILM	1/6 2K OHM J	
R429	RD-AZ330J	R CARBON FILM	1/6 33 OHM J		RD01	RD-AZ333J	R CARBON FILM	1/6 33K OHM J	
R446	RD-AZ104J	R CARBON FILM	1/6 100K OHM J		RD16	RD-AZ471J	R CARBON FILM	1/6 470 OHM J	
R476	RD-AZ101J	R CARBON FILM	1/6 100 OHM J		RD19	RD-AZ472J	R CARBON FILM	1/6 4.7K OHM J	
R477	RD-AZ221J	R CARBON FILM	1/6 220 OHM J		RD04	RD-AZ221J	R CARBON FILM	1/6 220 OHM J	
R478	RD-AZ221J	R CARBON FILM	1/6 220 OHM J		RD05	RD-AZ104J	R CARBON FILM	1/6 100K OHM J	
R501	RD-AZ330J	R CARBON FILM	1/6 33 OHM J		RD31	RD-AZ332J	R CARBON FILM	1/6 3.3K OHM J	
R502	RD-AZ330J	R CARBON FILM	1/6 33 OHM J		RD32	RD-AZ332J	R CARBON FILM	1/6 3.3K OHM J	
R503	RD-AZ330J	R CARBON FILM	1/6 33 OHM J		RD33	RD-AZ103J	R CARBON FILM	1/6 10K OHM J	
R505	RD-AZ103J	R CARBON FILM	1/6 10K OHM J		RD56	RD-4Z751J	R CARBON FILM	1/4 750 OHM J	
R506	RD-AZ472J	R CARBON FILM	1/6 4.7K OHM J		RD57	RD-4Z751J	R CARBON FILM	1/4 750 OHM J	
R509	RD-AZ472J	R CARBON FILM	1/6 4.7K OHM J		RD58	RD-4Z751J	R CARBON FILM	1/4 750 OHM J	
R513	RD-AZ331J	R CARBON FILM	1/6 330 OHM J		RD59	RD-AZ750J	R CARBON FILM	1/6 75 OHM J	
R514	RD-AZ331J	R CARBON FILM	1/6 330 OHM J		RD60	RD-AZ750J	R CARBON FILM	1/6 75 OHM J	
R523	RD-AZ472J	R CARBON FILM	1/6 4.7K OHM J		RD61	RD-AZ750J	R CARBON FILM	1/6 75 OHM J	
R535	RD-AZ473J	R CARBON FILM	1/6 47K OHM J		RD62	RD-AZ750J	R CARBON FILM	1/6 75 OHM J	
R537	RD-AZ473J	R CARBON FILM	1/6 47K OHM J		RD66	RD-AZ104J	R CARBON FILM	1/6 100K OHM J	
R538	RD-AZ912J	R CARBON FILM	1/6 9.1K OHM J		RD69	RD-AZ103J	R CARBON FILM	1/6 10K OHM J	

ELECTRICAL PARTSLIST

[illegible]

ELECTRICAL PARTSLIST									
----------------------	--	--	--	--	--	--	--	--	--

LOC	PARTS CODE	PARTS NAME	PARTS DESCRIPTION	REMARK	LOC	PARTS CODE	PARTS NAME	PARTS DESCRIPTION	REMARK
JP250	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP347	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP252	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP349	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP253	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP352	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP254	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP353	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP255	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP354	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP256	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP358	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP257	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP361	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP258	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP364	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP259	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP366	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP265	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP367	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP269	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP368	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP271	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP369	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP272	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP372	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP273	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP375	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP274	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP377	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP275	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP378	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP278	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP379	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP279	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP381	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP280	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP382	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP283	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP383	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP284	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP384	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP287	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP385	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP288	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP386	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP289	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP387	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP290	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP389	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP296	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP390	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP297	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP391	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP298	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP392	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP299	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP393	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP301	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP394	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP308	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP395	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP311	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP396	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP313	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP397	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP314	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP399	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP317	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP400	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP318	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP411	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP319	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP412	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP320	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP413	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP321	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP414	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP322	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP417	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP323	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP418	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP324	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP421	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP325	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP423	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP326	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP424	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP328	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP425	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP329	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP431	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP330	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP441	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP331	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP446	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP332	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP454	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP333	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP455	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP334	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP457	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP338	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP459	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP339	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP464	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP340	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP468	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP342	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP471	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	

ELECTRICAL PARTSLIST									
----------------------	--	--	--	--	--	--	--	--	--

LOC	PARTS CODE	PARTS NAME	PARTS DESCRIPTION	REMARK	AL02	2193011100	SOLDER WIRE	60 SNA 1.2D	
JP501	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		LOC	PARTS CODE	PARTS NAME	PARTS DESCRIPTION	REMARK
JP502	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		AL03	2291050305	FLUX LIQUID	RF-800KN	
JP503	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		AL04	2291050306	FLUX THINNER	RF-800ADD	
JP504	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		AL05	2291140501	WAX COVER		
JP505	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		AL06	97P4221200	CUSHION PCB	EVA T3.0(33X9.0)	
JP507	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		D704	DRA314USM-	LED LAMP	PL-RA314USM RED 2.5MM	
JP508	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		D714	DRA314USM-	LED LAMP	PL-RA314USM RED 2.5MM	
JP509	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		E701	97P0991600	PLATE EARTH AV	CS210(PBS) T0.2	
JP510	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		E702	97P0991600	PLATE EARTH AV	CS210(PBS) T0.2	
JP512	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		G701	DZ201209F-	DIGITRON	VF20-1209F	
JP513	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		G701A	97P2348100	HOLDER DIGITRON	PP	
JP514	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		H701	10RC356HF6	IC UNIT R/RECEIVER	ORC-356HF6	
JP515	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JK701	97P6316800	JACK PIN	DPSE-9966	
JP516	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JK703	97P62509F4	CONN WAFER	1394 ST-DIP	
JP518	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		P701	97P62M13DM	CONN WAFER	52492-2120 21P RA 1.25	
JP521	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		P702	97P62G08E9	CONN FFC	GF102-09S-TS 09P ST	
JP522	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		P702A	97P88FA903	CABLE FFC	1.0K 9P 30MM(6X4)	
JP531	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		P703	97P62G08E9	CONN FFC	GF102-09S-TS 09P ST	
JP532	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		P704	97P62A24B6	CONN WAFER	440055-6 RA PLUG 6P	
JP533	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		Z0031	PVLAJ1E470	PCB LOGIC CHIP AS	DF-L71D1D-BA	
JP539	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		IC701	1PT6315 Q	IC VFD DRIVER	PT6315 4PIN LQFP	
JP548	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		Z0032	PVLAJRE470	PCB LOGIC RADIAL AS	DF-L71D1D-BA	
JP551	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		C703	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
JP569	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		SW701	5S50101290	SW TACT	THVW502GDA	
JP572	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		SW702	5S50101290	SW TACT	THVW502GDA	
JP588	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		SW703	5S50101290	SW TACT	THVW502GDA	
JP598	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		SW704	5S50101290	SW TACT	THVW502GDA	
JP611	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		SW705	5S50101290	SW TACT	THVW502GDA	
JP614	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		SW706	5S50101290	SW TACT	THVW502GDA	
JP617	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		SW707	5S50101290	SW TACT	THVW502GDA	
JP618	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		SW708	5S50101290	SW TACT	THVW502GDA	
JP619	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		SW709	5S50101290	SW TACT	THVW502GDA	
JP620	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		SW710	5S50101290	SW TACT	THVW502GDA	
JP623	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		SW711	5S50101290	SW TACT	THVW502GDA	
JP631	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		SW712	5S50101290	SW TACT	THVW502GDA	
JP655	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		SW713	5S50101290	SW TACT	THVW502GDA	
JP666	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		Z0033	PVLAJAE470	PCB LOGIC AXIAL AS	DF-L71D1D-BA	
JP667	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		AL31	2TM14006LB	TAPE MASKING	3M #232 6.0X2000M	
JP678	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		AL31A	2TM110620R	TAPE MASKING	SI-600N RED	
JP716	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		AL31B	2TM1106200	TAPE MASKING	SI-600N	
JP735	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		C701	CCZF1H104Z	C CERA	HKF 50V 0.1MF Z AXIAL	
JP745	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		C702	CCZF1H104Z	C CERA	HKF 50V 0.1MF Z AXIAL	
JP748	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		C710	CBZR1C392M	C CERA	16V Y5R 3900PF M (AXIAL)	
JP766	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		C711	CBZR1C392M	C CERA	16V Y5R 3900PF M (AXIAL)	
JP777	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		D701	DZUZSR6BSB	DIODE ZENER	UZ-5.6BSB(5.46-5.70V)	
JP780	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		D702	DZUZSR1BSB	DIODE ZENER	UZ-5.1BSB(4.97-5.18V)	
JP788	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		D703	DZUZSR1BSB	DIODE ZENER	UZ-5.1BSB(4.97-5.18V)	
JP812	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		D705	DZN4148 -	DIODE	1N4148 AUTO 52MM	
JP845	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		D706	DZN4148 -	DIODE	1N4148 AUTO 52MM	
JP848	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		D707	DZN4148 -	DIODE	1N4148 AUTO 52MM	
JP864	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		D708	DZN4148 -	DIODE	1N4148 AUTO 52MM	
JP964	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		D709	DZN4148 -	DIODE	1N4148 AUTO 52MM	
JP989	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		D710	DZN4148 -	DIODE	1N4148 AUTO 52MM	
Z003	PVLAJMSAE470	PCB LOGIC MANUAL AS	DF-L71D1D-BA		D711	DZN4148 -	DIODE	1N4148 AUTO 52MM	
AL01	2193100801	SOLDER WIRE	SNPB-63.37 3P(INO FLUX)		D712	DZN4148 -	DIODE	1N4148 AUTO 52MM	

ELECTRICAL PARTSLIST

LOC	PARTS CODE	PARTS NAME	PARTS DESCRIPTION	REMARK	LOC	PARTS CODE	PARTS NAME	PARTS DESCRIPTION	REMARK
D713	DZN4148 -	DIODE	1N4148 AUTO 52MM		CD20	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
D715	DZN4148 -	DIODE	1N4148 AUTO 52MM		CM28	HCQK102JBA	C CHIP CERA	50V CH 1000PF J 1608	
D716	DZN4148 -	DIODE	1N4148 AUTO 52MM		CM29	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
D717	DZN4148 -	DIODE	1N4148 AUTO 52MM		CM38	HCQK102JBA	C CHIP CERA	50V CH 1000PF J 1608	
JP701	85801060TA	WIRE COPPER	0.6X52MM TAPING		CM39	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
JP702	85801060TA	WIRE COPPER	0.6X52MM TAPING		CM46	HCEJJD221MD	C CHIP ELECTRO	MVG 10V 220MF M D8XH6.3	
JP703	85801060TA	WIRE COPPER	0.6X52MM TAPING		CM52	HCEJJD221MD	C CHIP ELECTRO	MVG 10V 220MF M D8XH6.3	
JP704	85801060TA	WIRE COPPER	0.6X52MM TAPING		CM56	HCEKF100MC	C CHIP ELECTRO	MV 16V 10MF D4.0XH5.2	
JP705	85801060TA	WIRE COPPER	0.6X52MM TAPING		CM63	HCEKF100MC	C CHIP ELECTRO	MV 16V 10MF D4.0XH5.2	
JP706	85801060TA	WIRE COPPER	0.6X52MM TAPING		CM73	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
JP707	85801060TA	WIRE COPPER	0.6X52MM TAPING		CM82	HCQK102JBA	C CHIP CERA	50V CH 1000PF J 1608	
JP708	85801060TA	WIRE COPPER	0.6X52MM TAPING		CM05	HCEEF101MD	C CHIP ELECTRO	MV 16V 100MF M 6.3DX5.7H	
JP709	85801060TA	WIRE COPPER	0.6X52MM TAPING		CM09	HCEKF100MC	C CHIP ELECTRO	MV 16V 10MF D4.0XH5.2	
JP710	85801060TA	WIRE COPPER	0.6X52MM TAPING		CM10	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
JP711	85801060TA	WIRE COPPER	0.6X52MM TAPING		CM27	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
JP712	85801060TA	WIRE COPPER	0.6X52MM TAPING		CM33	HCBK103KBA	C CHIP CERA	50V XTR 0.01MF K 1608	
JP713	85801060TA	WIRE COPPER	0.6X52MM TAPING		CM55	HCEMF470MD	C CHIP ELECTRO	MV 16V 47MF D6.3XH5.2	
JP714	85801060TA	WIRE COPPER	0.6X52MM TAPING		CM58	HCEKF100MC	C CHIP ELECTRO	MV 16V 10MF D4.0XH5.2	
JP715	85801060TA	WIRE COPPER	0.6X52MM TAPING		CM08	HCBK473KBA	C CHIP CERA	50V XTR 0.047MF K 1608	
L701	5CPZ229K02	COIL PEAKING	2.2UH K(AXIAL 3.5MM)		CM13	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
L702	5CPZ229K02	COIL PEAKING	2.2UH K(AXIAL 3.5MM)		CM14	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
R701	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J		CM22	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
R702	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J		CM23	HCEEF101MD	C CHIP ELECTRO	MV 16V 100MF M 6.3DX5.7H	
R703	RD-AZ301J-	R CARBON FILM	1/6 300 OHM J		CM29	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
R704	RD-AZ823J-	R CARBON FILM	1/6 82K OHM J		ICC02	1AP1184ADE	IC CHIP REGULATOR	AP1184KSA ADJ VOLT 4A	
R705	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J		ICC03	1AP1184ADE	IC CHIP REGULATOR	AP1184KSA ADJ VOLT 4A	
R707	RD-AZ301J-	R CARBON FILM	1/6 300 OHM J		ICD01	1TSB41AB1E	IC CHIP IEEE1394	TSB41AB1PHR	
R720	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J		ICM01	1G2995F1UC	IC CHIP DDR REGULATOR	G2995F1U AV1N=PV1N=2.5V	
UL01	97P65456UA	PCB UNION	330X246X1.6T D1B		ICM02	1ADD8616AQ	IC CHIP DORSDRAM	256MB(16MX16) 200MHZ	
UL04	PVMGMSE470	PCB MPEG MANUAL AS	DF-L71D1D-BA		ICM03	1ADD8616AQ	IC CHIP DORSDRAM	256MB(16MX16) 200MHZ	
AG01	2193100801	SOLDER WIRE	SN-PB-63.37 3P(NO FLUX)		ICM05	1LVC16373E	IC CHIP TRANSPARENT	SN74LVC16373ADGGR	
PC05	97P6240639	CONN WAFER	2-440091-5 2.54MM 39PIN		ICM06	160ATTCTQ7	IC CHIP FLASH ROM	MX29LV160ATTTC-70 48PIN	
Z0051	PVMGMJ1E470	PCB MPEG CHIP AS	DF-L71D1D-BA		ICM01	1DMN8602-Q	IC CHIP CODEC	DMN-8602	
AMA1	2193220007	SOLDER CLEAM	RM9A154 63SN37PB,#325		ICV03	1SAA7115HQ	IC CHIP VIDEO DECODER	SA7115 QFP 100PIN TRAY	
CC02	HCEMF470MD	C CHIP ELECTRO	MV 16V 47MF D6.3XH5.2		LC03	HRF8000-EA	R CHIP	1/8 0 OHM 3216	
CC04	HCQK220JBA	C CHIP CERA	50V CH 22PF J 1608		LC05	HLB601MMZA	L CHIP BEAD	608Y601B 600OCHM 100MHZ	
CC05	HCEJJD221MD	C CHIP ELECTRO	MVG 10V 220MF M D8XH6.3		LC07	HLB601MMZA	L CHIP BEAD	608Y601B 600OCHM 100MHZ	
CC08	HCEJJD221MD	C CHIP ELECTRO	MVG 10V 220MF M D8XH6.3		LC08	HLB601MMZA	L CHIP BEAD	608Y601B 600OCHM 100MHZ	
CC09	HCEJJD221MD	C CHIP ELECTRO	MVG 10V 220MF M D8XH6.3		LC09	HLB601MMZA	L CHIP BEAD	608Y601B 600OCHM 100MHZ	
CC11	HCEJJD221MD	C CHIP ELECTRO	MVG 10V 220MF M D8XH6.3		LC10	HLB601MMZA	L CHIP BEAD	608Y601B 600OCHM 100MHZ	
CC13	HCEPF331ME	C CHIP ELECTRO	MVG 16V 330MF M D8XH10		LC12	HLB601MMZA	L CHIP BEAD	608Y601B 600OCHM 100MHZ	
CC15	HCEJJD221MD	C CHIP ELECTRO	MVG 10V 220MF M D8XH6.3		LC13	HLB601MMZA	L CHIP BEAD	608Y601B 600OCHM 100MHZ	
CC16	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		LC14	HLB601MMZA	L CHIP BEAD	608Y601B 600OCHM 100MHZ	
CC17	HCEPF331ME	C CHIP ELECTRO	MVG 16V 330MF M D8XH10		LC15	HLB601MMZA	L CHIP BEAD	608Y601B 600OCHM 100MHZ	
CC19	HCEKF100MC	C CHIP ELECTRO	MV 16V 10MF D4.0XH5.2		LC33	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
CC24	HCEMF470MD	C CHIP ELECTRO	MV 16V 47MF D6.3XH5.2		LC34	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
CC26	HCEMF470MD	C CHIP ELECTRO	MV 16V 47MF D6.3XH5.2		LC35	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
CD01	HCQK560JBA	C CHIP CERA	50V CH 56PF J 1608		LC36	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
CD02	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		LC37	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
CD06	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		LC38	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
CD07	HCQK200JBA	C CHIP CERA	50V CH 20PF J 1608		LC39	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
CD08	HCQK220JBA	C CHIP CERA	50V CH 22PF J 1608		LC40	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
CD09	HCEKF100MC	C CHIP ELECTRO	MV 16V 10MF D4.0XH5.2		LC58	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
CD13	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		LC59	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
CD19	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		LC60	HRF8000-EA	R CHIP	1/8 0 OHM 3216	

ELECTRICAL PARTSLIST

LOC	PARTS CODE	PARTS NAME	PARTS DESCRIPTION	REMARK	LOC	PARTS CODE	PARTS NAME	PARTS DESCRIPTION	REMARK
LC61	HRF8000-EA	R CHIP	1/8 0 OHM 3216		RM21	HRFS220JBA	R CHIP	1/16W 22 OHM J 1608	
LC62	HRF8000-EA	R CHIP	1/8 0 OHM 3216		RM22	HRTS8E220J	R CHIP ARRAY	1/16 8P 22 OHM J 3216	
LC64	HRFT000-CA	R CHIP	1/10 0 OHM 2012		RM23	HRFS220JBA	R CHIP	1/16W 22 OHM J 1608	
LC65	HRFT000-CA	R CHIP	1/10 0 OHM 2012		RM24	HRTS8E510J	R CHIP ARRAY	1/16 8P 51 OHM J 3216	
LC66	HRFT000-CA	R CHIP	1/10 0 OHM 2012		RM25	HRTS8E510J	R CHIP ARRAY	1/16 8P 51 OHM J 3216	
LC67	HRFT000-CA	R CHIP	1/10 0 OHM 2012		RM26	HRTS8E510J	R CHIP ARRAY	1/16 8P 51 OHM J 3216	
LD01	HFEACM321B	F CHIP EMI	80 OHM ACM 3225		RM27	HRTS8E510J	R CHIP ARRAY	1/16 8P 51 OHM J 3216	
LD02	HFEACM321B	F CHIP EMI	80 OHM ACM 3225		RM28	HRTS8E510J	R CHIP ARRAY	1/16 8P 51 OHM J 3216	
LD04	HRFS000-BA	R CHIP	1/16 0 OHM 1608		RM29	HRTS8E510J	R CHIP ARRAY	1/16 8P 51 OHM J 3216	
LD05	HRFS000-BA	R CHIP	1/16 0 OHM 1608		RM30	HRTS8E510J	R CHIP ARRAY	1/16 8P 51 OHM J 3216	
LV16	HRFT000-CA	R CHIP	1/10 0 OHM 2012		RM31	HRTS8E510J	R CHIP ARRAY	1/16 8P 51 OHM J 3216	
LV17	HRF8000-EA	R CHIP	1/8 0 OHM 3216		RM36	HRFS510JBA	R CHIP	1/16 51 OHM J 1608	
PC01	97P62K06EX	CONN FFC SMD	SCB-2231-M-2 SMD ST1.0		RM38	HRFS510JBA	R CHIP	1/16 51 OHM J 1608	
PC02	97P62Y36BC	CONN WAFER SMD	20022WS-12C PLUG ST SMD		RM39	HRFS510JBA	R CHIP	1/16 51 OHM J 1608	
PD01	97P62Y36B6	CONN WAFER SMD	20022WS-06C PLUG ST SMD		RM40	HRFS510JBA	R CHIP	1/16 51 OHM J 1608	
RC01	HRFS000-BA	R CHIP	1/16 0 OHM 1608		RM42	HRFS510JBA	R CHIP	1/16 51 OHM J 1608	
RC09	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		RM43	HRFS510JBA	R CHIP	1/16 51 OHM J 1608	
RC10	HRFS000-BA	R CHIP	1/16 0 OHM 1608		RM45	HRFS510JBA	R CHIP	1/16 51 OHM J 1608	
RC11	HRFS820JBA	R CHIP	1/16 82 OHM J 1608		RM47	HRFS510JBA	R CHIP	1/16 51 OHM J 1608	
RC12	HRFS820JBA	R CHIP	1/16 82 OHM J 1608		RM51	HRFS510JBA	R CHIP	1/16 51 OHM J 1608	
RC13	HRFS820JBA	R CHIP	1/16 82 OHM J 1608		RM01	HRFS220JBA	R CHIP	1/16W 22 OHM J 1608	
RC14	HRFS681JBA	R CHIP	1/16 680 OHM J 1608		RM05	HRFS220JBA	R CHIP	1/16W 22 OHM J 1608	
RC15	HRFS472JBA	R CHIP	1/16 4.7K OHM J 1608		RM07	HRFS220JBA	R CHIP	1/16W 22 OHM J 1608	
RC29	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		RM08	HRFS220JBA	R CHIP	1/16W 22 OHM J 1608	
RC37	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		RM09	HRFS220JBA	R CHIP	1/16W 22 OHM J 1608	
RC38	HRFS000-BA	R CHIP	1/16 0 OHM 1608		RM11	HRFS220JBA	R CHIP	1/16W 22 OHM J 1608	
RC46	HRFS331JBA	R CHIP	1/16 330 OHM J 1608		RM12	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
RC49	HRFS101JBA	R CHIP	1/16 100 OHM J 1608		RM13	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
RC50	HRFS101JBA	R CHIP	1/16 100 OHM J 1608		RM14	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
RD01	HRFS510JBA	R CHIP	1/16 51 OHM J 1608		RM15	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
RD03	HRFS220JBA	R CHIP	1/16W 22 OHM J 1608		RM23	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
RD04	HRFS472JBA	R CHIP	1/16 4.7K OHM J 1608		RM30	HRFS122JBA	R CHIP	1/16 1.2K OHM J 1608	
RD06	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		RM38	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
RD10	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		RM40	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
RD11	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		RM42	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
RD13	HRFS102JBA	R CHIP	1/16 1K OHM J 1608		RM49	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
RD14	HRFS560JBA	R CHIP	1/16 56 OHM J 1608		RM50	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
RD16	HRFS560JBA	R CHIP	1/16 56 OHM J 1608		RM52	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
RD17	HRFS560JBA	R CHIP	1/16 56 OHM J 1608		RM53	HRFS472JBA	R CHIP	1/16 4.7K OHM J 1608	
RD18	HRFS560JBA	R CHIP	1/16 56 OHM J 1608		RV15	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
RD21	HRFS220JBA	R CHIP	1/16W 22 OHM J 1608		RV18	HRTS8E330J	R CHIP ARRAY	1/16 8P 33 OHM 3216	
RD22	HRFS220JBA	R CHIP	1/16W 22 OHM J 1608		RV19	HRTS8E330J	R CHIP ARRAY	1/16 8P 33 OHM 3216	
RD23	HRFS000-BA	R CHIP	1/16 0 OHM 1608		RV25	HRFS101JBA	R CHIP	1/16 100 OHM J 1608	
RD24	HRFS000-BA	R CHIP	1/16 0 OHM 1608		RV26	HRFS101JBA	R CHIP	1/16 100 OHM J 1608	
RD25	HRFS153JBA	R CHIP	1/16 15K OHM J 1608		UM01	97P65443MB	PCB MPEG	126.5X145(253X145)2	
RD26	HRFS153JBA	R CHIP	1/16 15K OHM J 1608		XD01	5XJ24R57SE	CRYSTAL QUARTZ	HC-49S 24.576000MHZ 30PP	
RM03	HRTS8E510J	R CHIP ARRAY	1/16 8P 51 OHM J 3216		XN01	5XJ13R50SE	CRYSTAL QUARTZ SMD	HC-49S/S 13.50MHZ 18PF	
RM04	HRTS8E510J	R CHIP ARRAY	1/16 8P 51 OHM J 3216		XV01	5XJ24R57SE	CRYSTAL QUARTZ	HC-49S 24.576000MHZ	
RM05	HRTS8E510J	R CHIP ARRAY	1/16 8P 51 OHM J 3216		Z0052	PVMGJ2E470	PCB MPEG CHIP TOP AS	DF-L71D1D-BA	
RM07	HRTS8E510J	R CHIP ARRAY	1/16 8P 51 OHM J 3216		AMB1	2193220007	SOLDER CLEAM	RM9A154 63SN37PB,#325	
RM10	HRTS8E220J	R CHIP ARRAY	1/16 8P 22 OHM J 3216		CC01	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
RM12	HRTS8E220J	R CHIP ARRAY	1/16 8P 22 OHM J 3216		CC03	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
RM18	HRFS220JBA	R CHIP	1/16W 22 OHM J 1608		CC06	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
RM19	HRFS220JBA	R CHIP	1/16W 22 OHM J 1608		CC07	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
RM20	HRFS220JBA	R CHIP	1/16W 22 OHM J 1608		CC10	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	

ELECTRICAL PARTSLIST

LOC	PARTS CODE	PARTS NAME	PARTS DESCRIPTION	REMARK	LOC	PARTS CODE	PARTS NAME	PARTS DESCRIPTION	REMARK
CC12	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CM37	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608	
CC14	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CM40	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CC18	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CM41	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608	
CC20	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CM42	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608	
CC21	HQCK180JBA	C CHIP CERA	50V CH 18PF J 1608		CM43	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CC22	HQCK180JBA	C CHIP CERA	50V CH 18PF J 1608		CM44	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608	
CC23	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CM45	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608	
CC25	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CM47	HCEKF100MC	C CHIP ELECTRO	MV 16V 10MF D4.0XH5.2	
CC27	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608		CM48	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CC28	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CM49	HCEKF100MC	C CHIP ELECTRO	MV 16V 10MF D4.0XH5.2	
CD03	HQCK221JBA	C CHIP CERA	50V CH 220PF J 1608		CM50	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CD04	HCBF224KBA	C CHIP CERA	16V X7R 0.22MF K 1608		CM51	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CD05	HCEK109MC	C CHIP ELECTRO	MV 50V 1MF D4.0XH5.2		CM53	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CD10	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608		CM54	HCEKF100MC	C CHIP ELECTRO	MV 16V 10MF D4.0XH5.2	
CD11	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CM55	HCEKF100MC	C CHIP ELECTRO	MV 16V 10MF D4.0XH5.2	
CD12	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608		CM57	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CD14	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608		CM58	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CD15	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CM59	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CD16	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CM60	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608	
CD17	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CM61	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608	
CD18	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608		CM62	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608	
CM01	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CM64	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CM02	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CM65	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CM03	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608		CM66	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CM04	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608		CM67	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CM05	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CM68	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CM06	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CM69	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608	
CM07	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608		CM70	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608	
CM08	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CM71	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608	
CM09	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CM72	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608	
CM10	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608		CM74	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CM11	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608		CM75	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CM12	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CM76	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608	
CM13	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CM77	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608	
CM14	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CM78	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608	

ELECTRICAL PARTSLIST

LOC	PARTS CODE	PARTS NAME	PARTS DESCRIPTION	REMARK	LOC	PARTS CODE	PARTS NAME	PARTS DESCRIPTION	REMARK
CN06	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CV18	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CN07	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CV19	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CN08	HC8K103KBA	C CHIP CERA	50V X7R 0.01MF K 1608		CV20	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CN11	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CV21	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CN12	HC8K102KBA	C CHIP CERA	50V X7R 1000PF K 1608		CV24	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CN13	HC8K102KBA	C CHIP CERA	50V X7R 1000PF K 1608		CV25	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CN14	HC8K102KBA	C CHIP CERA	50V X7R 1000PF K 1608		CV26	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CN15	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		DC02	DRLS4148-B	DIODE CHIP	RLS4148TE-11 3415	
CN16	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		DN01	DRLS4148-B	DIODE CHIP	RLS4148TE-11 3415	
CN17	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		DN02	DRLS4148-B	DIODE CHIP	RLS4148TE-11 3415	
CN18	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		LC01	HRTF000-CA	R CHIP	1/10 0 OHM 2012	
CN19	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		LC02	HRSF8000-BA	R CHIP	1/16 0 OHM 3216	
CN20	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		LC16	HRSF8000-BA	R CHIP	1/16 0 OHM 1608	
CN21	HC8CF100MC	C CHIP ELECTRO	MV 16V 10MF D4.0XH5.2		LC17	HRSF8000-BA	R CHIP	1/16 0 OHM 1608	
CN22	HC8CF100MC	C CHIP ELECTRO	MV 16V 10MF D4.0XH5.2		LC18	HRSF8000-BA	R CHIP	1/16 0 OHM 1608	
CN23	HC8K103KBA	C CHIP CERA	50V X7R 0.01MF K 1608		LC19	HRSF8000-BA	R CHIP	1/16 0 OHM 1608	
CN24	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		LC20	HRSF8000-BA	R CHIP	1/16 0 OHM 1608	
CN25	HC8K103KBA	C CHIP CERA	50V X7R 0.01MF K 1608		LC21	HRSF8000-BA	R CHIP	1/16 0 OHM 1608	
CN26	HC8K103KBA	C CHIP CERA	50V X7R 0.01MF K 1608		LC22	HRSF8000-BA	R CHIP	1/16 0 OHM 1608	
CN28	HC8K102KBA	C CHIP CERA	50V X7R 1000PF K 1608		LC32	HRSF8000-BA	R CHIP	1/16 0 OHM 1608	
CN29	HC8K102KBA	C CHIP CERA	50V X7R 1000PF K 1608		LC41	HRSF8000-BA	R CHIP	1/16 0 OHM 1608	
CN30	HC8K102KBA	C CHIP CERA	50V X7R 1000PF K 1608		LC42	HRSF8000-BA	R CHIP	1/16 0 OHM 1608	
CN31	HC8K102KBA	C CHIP CERA	50V X7R 1000PF K 1608		LC43	HRSF8000-BA	R CHIP	1/16 0 OHM 1608	
CN32	HC8K103KBA	C CHIP CERA	50V X7R 0.01MF K 1608		LC44	HRSF8000-BA	R CHIP	1/16 0 OHM 1608	
CN34	HC8CF100MC	C CHIP ELECTRO	MV 16V 10MF D4.0XH5.2		LC45	HRSF8000-BA	R CHIP	1/16 0 OHM 1608	
CN35	HC8CF100MC	C CHIP ELECTRO	MV 16V 10MF D4.0XH5.2		LC46	HRSF8000-BA	R CHIP	1/16 0 OHM 1608	
CN36	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		LC47	HRSF8000-BA	R CHIP	1/16 0 OHM 1608	
CN37	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		LC48	HRSF8000-BA	R CHIP	1/16 0 OHM 1608	
CN38	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		LC49	HRSF8000-BA	R CHIP	1/16 0 OHM 1608	
CN39	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		LC50	HRSF8000-BA	R CHIP	1/16 0 OHM 1608	
CN40	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		LC51	HRSF8000-BA	R CHIP	1/16 0 OHM 1608	
CN41	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		LC52	HRSF8000-BA	R CHIP	1/16 0 OHM 1608	
CN42	HC8K102KBA	C CHIP CERA	50V X7R 1000PF K 1608		LC53	HRSF8000-BA	R CHIP	1/16 0 OHM 1608	
CN43	HC8K102KBA	C CHIP CERA	50V X7R 1000PF K 1608		LC54	HRSF8000-BA	R CHIP	1/16 0 OHM 1608	
CN44	HC8K102KBA	C CHIP CERA	50V X7R 1000PF K 1608		LC55	HRSF8000-BA	R CHIP	1/16 0 OHM 1608	
CN45	HC8K103KBA	C CHIP CERA	50V X7R 0.01MF K 1608		LC56	HRSF8000-BA	R CHIP	1/16 0 OHM 1608	

ELECTRICAL PARTSLIST

LOC	PARTS CODE	PARTS NAME	PARTS DESCRIPTION	REMARK	LOC	PARTS CODE	PARTS NAME	PARTS DESCRIPTION	REMARK
RC20	HRTS8E330J	R CHIP ARRAY	1/16 8P 33 OHM 3216		RN17	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
RC21	HRTS8E330J	R CHIP ARRAY	1/16 8P 33 OHM 3216		RN18	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
RC23	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		RN19	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
RC30	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		RN21	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
RC32	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		RN22	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
RC33	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		RN31	HRFS220JBA	R CHIP	1/16W 22 OHM J 1608	
RC34	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		RN32	HRFS220JBA	R CHIP	1/16W 22 OHM J 1608	
RC35	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		RN33	HRFS220JBA	R CHIP	1/16W 22 OHM J 1608	
RC36	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		RN34	HRFS220JBA	R CHIP	1/16W 22 OHM J 1608	
RC41	HRFS271JBA	R CHIP	1/16 270 OHM J 1608		RN35	HRFS220JBA	R CHIP	1/16W 22 OHM J 1608	
RC42	HRFS121JBA	R CHIP	1/16 120 OHM J 1608		RN36	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
RC43	HRFS121JBA	R CHIP	1/16 120 OHM J 1608		RN37	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
RC44	HRFS121JBA	R CHIP	1/16 120 OHM J 1608		RN39	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
RC45	HRFS101JBA	R CHIP	1/16 100 OHM J 1608		RN43	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
RC47	HRFS221JBA	R CHIP	1/16 220 OHM J 1608		RN44	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
RC48	HRFS101JBA	R CHIP	1/16 100 OHM J 1608		RN46	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
RD02	HRFS1401JBA	R CHIP	1/16 100 OHM J 1608		RN48	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
RD07	HRFS681JBA	R CHIP	1/16 680 OHM J 1608		RN54	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
RD08	HRFS681JBA	R CHIP	1/16 680 OHM J 1608		RV17	HRFS101JBA	R CHIP	1/16 100 OHM J 1608	
RD09	HRFS681JBA	R CHIP	1/16 680 OHM J 1608		RV22	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
RD12	HRFS102JBA	R CHIP	1/16 1K OHM J 1608		RV23	HRFS151JBA	R CHIP	1/16 150 OHM J 1608	
RD15	HRFS12JBA	R CHIP	1/16 5.1K OHM J 1608		Z800	PVPWMSE470	PCB POWER MANUAL AS	DF-L71D1D-BA	
RD19	HRFS913FBA	R CHIP	1/16 91K OHM F 1608		AP01	2193100801	SOLDER WIRE	SNPB=6337 3P(INO FLUX)	
RD20	HRFS682FBA	R CHIP	1/16 6.8K OHM F 1608		AP02	2193011100	SOLDER WIRE	60 SNA 1.2D	
RJ10	HRFS000-BA	R CHIP	1/16 0 OHM 1608		AP03	2291050305	FLUX LIQUID	RF-800KN	
RM01	HRTS8E510J	R CHIP ARRAY	1/16 8P 51 OHM J 3216		AP04	2291050306	FLUX THINNER	RF-800ADD	
RM02	HRTS8E510J	R CHIP ARRAY	1/16 8P 51 OHM J 3216		AP05	2291140501	WAX COVER		
RM06	HRTS8E510J	R CHIP ARRAY	1/16 8P 51 OHM J 3216		AP06	97P93B2101	LABEL CD(PCB)	PAPER(13X25) ALL MODEL	
RM08	HRTS8E510J	R CHIP ARRAY	1/16 8P 51 OHM J 3216		C801	CL2EE3104M	C LINE ACROSS	AC 275V 0.1MF M PCX2 335M	
RM09	HRTS8E220J	R CHIP ARRAY	1/16 8P 22 OHM J 3216		C805	CH1TFE332M	C CERA AC	4.0KV 3300PF M AD AC250V/	
RM11	HRTS8E220J	R CHIP ARRAY	1/16 8P 22 OHM J 3216		C806	CEXF2G470V	C ELECTRO	400V RSS 47MF 16X25	
RM13	HRTS8E220J	R CHIP ARRAY	1/16 8P 22 OHM J 3216		C821	CEXK1C102L	C ELECTRO	16V 1000UF KXL (10X20)	
RM14	HRFS510JBA	R CHIP	1/16 51 OHM J 1608		C822	CEXK1C102L	C ELECTRO	16V 1000UF KXL (10X20)	
RM15	HRFS510JBA	R CHIP	1/16 51 OHM J 1608		C823	CEXK1C102L	C ELECTRO	16V 1000UF KXL (10X20)	
RM16	HRFS510JBA	R CHIP	1/16 51 OHM J 1608		C824	CEXK1E681L	C ELECTRO	25V 680UF KXL	
RM17	HRFS510JBA	R CHIP	1/16 51 OHM J 1608		C825	CEXK1E681L	C ELECTRO	25V 680UF KXL	
RM32	HRTS8E510J	R CHIP ARRAY	1/16 8P 51 OHM J 3216		D801	DS1WBA60	DIODE BRIDGE	S1WBA60	
RM33	HRTS8E510J	R CHIP ARRAY	1/16 8P 51 OHM J 3216		D821	D D 3 S 6 M	DIODE SCHOTTKY	D3S6M	
RM34	HRTS8E510J	R CHIP ARRAY	1/16 8P 51 OHM J 3216		D822	D D 3 S 6 M	DIODE SCHOTTKY	D3S6M	
RM35	HRTS8E510J	R CHIP ARRAY	1/16 8P 51 OHM J 3216		D823	D D 3 S 6 M	DIODE SCHOTTKY	D3S6M	
RM37	HRFS510JBA	R CHIP	1/16 51 OHM J 1608		D824	DS2L20U F	DIODE	S2L20U 4004 P15	
RM41	HRFS510JBA	R CHIP	1/16 51 OHM J 1608		D825	DS2L20U F	DIODE	S2L20U 4004 P15	
RM44	HRFS510JBA	R CHIP	1/16 51 OHM J 1608		D832	DS2L20U F	DIODE	S2L20U 4004 P15	
RM46	HRFS510JBA	R CHIP	1/16 51 OHM J 1608		D833	DSR203D -	DIODE SCHOTTKY	SR203D	
RM48	HRFS510JBA	R CHIP	1/16 51 OHM J 1608		D834	D D 3 S 6 M	DIODE SCHOTTKY	D3S6M	
RM49	HRFS510JBA	R CHIP	1/16 51 OHM J 1608		I802A	97Q4400101	RADIATOR TR	AL	
RM50	HRFS510JBA	R CHIP	1/16 51 OHM J 1608		I802B	7174300811	SCREW TAPPTITE	TT2 RND 3/8 MFZN	
RM56	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		I807A	97Q4400100	RADIATOR TR	AL EX	
RM57	HRFS000-BA	R CHIP	1/16 0 OHM 1608		I807B	7174300811	SCREW TAPPTITE	TT2 RND 3/8 MFZN	
RM58	HRFS000-BA	R CHIP	1/16 0 OHM 1608		IC801	1LTV817MDW	IC PHOTO COUPLER	LVT817M-DW	
RM62	HRFS000-BA	R CHIP	1/16 0 OHM 1608		IC802	1FSDM0565P	IC POWER SWITCH	FSDM0565RYDTU 70KH-Z	
RN02	HRFS471JBA	R CHIP	1/16 470 OHM J 1608		IC803	1KA78R05TU	IC REGULATOR	KA78R05TU 5.0V 1.0A TO-220F	
RN06	HRFS220JBA	R CHIP	1/16W 22 OHM J 1608		IC808	1K1A78R12A	IC REGULATOR	K1A78R12AP1 12.0V 1.0A	
RN10	HRFS220JBA	R CHIP	1/16W 22 OHM J 1608		L801	5PLFBLF216	FILTER LINE	BLF-2116	
RN16	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		L802	5PLF2055	FILTER LINE	LF-2055	

ELECTRICAL PARTSLIST

LOC	PARTS CODE	PARTS NAME	PARTS DESCRIPTION	REMARK	LOC	PARTS CODE	PARTS NAME	PARTS DESCRIPTION	REMARK
L821	56C33K705	COIL CHOKE	3R3K(3.3UH)		D828	D Z 1 F 3 E	DIODE FR	1F3E	
P801	97P62Y02X2	CONN WAFER	YFW800 STR 10MM 2P		D830	DZUZ3R9BSB	DIODE ZENER	UZ-3.9BSB(3.92-4.14)	
P821	97P62A09A4	CONN WAFER	440052-4 PLUG 4P 2.5		JP801	85801060TA	WIRE COPPER	0.6X52MM TAPING	
P823	97P62Y17AD	CONN WAFER	YW025-13 ST PLUG 2.5MM		JP802	85801060TA	WIRE COPPER	0.6X52MM TAPING	
PJ822	97P885X236	CONN AS	12H-12S 250MM TAPPING		JP803	85801060TA	WIRE COPPER	0.6X52MM TAPING	
QR21	TFQP20N06-	FET	FQP20N06		JP821	85801060TA	WIRE COPPER	0.6X52MM TAPING	
R802	RW028229J	R WIRE WOUND	2W 2.2 OHM J		JP822	85801060TA	WIRE COPPER	0.6X52MM TAPING	
R806	RS02F473JS	R-M-OXIDE FILM	2W 47K OHM J SMALL		JP823	85801060TA	WIRE COPPER	0.6X52MM TAPING	
T801	57M8282316	TRANS SMPS	TSW-C9AD1D(MAIN)		JP824	85801060TA	WIRE COPPER	0.6X52MM TAPING	
Z0081	PVPWJRN730	PCB POWER RADIAL AS	DF-L71D1N-BJ		JP825	85801060TA	WIRE COPPER	0.6X52MM TAPING	
C807	CMLX2G333K	C MYLAR	400V MEU 0.033MF K		JP826	85801060TA	WIRE COPPER	0.6X52MM TAPING	
C808	CEXF1H220V	C ELECTRO	50V RSS 22MF (5X11) TP		JP827	85801060TA	WIRE COPPER	0.6X52MM TAPING	
C809	CMLM2A223J	C MYLAR	100V 0.022MF J TP		JP828	85801060TA	WIRE COPPER	0.6X52MM TAPING	
C810	CBXB3A101K	C CERA SEMI	1KV RR 100PF K		JP829	85801060TA	WIRE COPPER	0.6X52MM TAPING	
C826	CEXK1H470L	C ELECTRO	50V 47MF KXL		JP830	85801060TA	WIRE COPPER	0.6X52MM TAPING	
C827	CEXK1H470L	C ELECTRO	50V 47MF KXL		JP831	85801060TA	WIRE COPPER	0.6X52MM TAPING	
C828	CEXK1H470L	C ELECTRO	50V 47MF KXL		JP832	85801060TA	WIRE COPPER	0.6X52MM TAPING	
C829	CEXF1A471V	C ELECTRO	10V RSS 470MF (8X11.5) TP		JP833	85801060TA	WIRE COPPER	0.6X52MM TAPING	
C830	CEXF1E221V	C ELECTRO	25V RSS 220MF (8X11.5) TP		JP834	85801060TA	WIRE COPPER	0.6X52MM TAPING	
C831	CEXF1E221V	C ELECTRO	25V RSS 220MF (8X11.5) TP		JP835	85801060TA	WIRE COPPER	0.6X52MM TAPING	
C832	CEXF1E221V	C ELECTRO	25V RSS 220MF (8X11.5) TP		JP836	85801060TA	WIRE COPPER	0.6X52MM TAPING	
C833	CEXF1E221V	C ELECTRO	25V RSS 220MF (8X11.5) TP		JP837	85801060TA	WIRE COPPER	0.6X52MM TAPING	
C834	CMLX1J104K	C MYLAR	MEU 63V 0.1MF K		JP838	85801060TA	WIRE COPPER	0.6X52MM TAPING	
C836	CEXK1H470L	C ELECTRO	50V 47MF KXL		JP839	85801060TA	WIRE COPPER	0.6X52MM TAPING	
F801	5FWPS2022L	FUSE	WIDE TL 250V 2A CASE		JP840	85801060TA	WIRE COPPER	0.6X52MM TAPING	
IC803	1KA431AZ	IC REGULATOR	KA431AZ 1% TO-92		JP841	85801060TA	WIRE COPPER	0.6X52MM TAPING	
L822	56C220K686	COIL CHOKE	22UH K 27.5X0.4D		R803	RD-4Z333J-	R CARBON FILM	1/4 33K OHM J	
L823	56C220K686	COIL CHOKE	22UH K 27.5X0.4D		R804	RD-4Z473J-	R CARBON FILM	1/4 47K OHM J	
L824	56C220K686	COIL CHOKE	22UH K 27.5X0.4D		R805	RD-AZ820J-	R CARBON FILM	1/6 82 OHM J	
Z0082	PVPWJAE470	POWER AXIAL AUTO AS	DF-L71D1D-BA		R821	RD-AZ221J-	R CARBON FILM	1/6 220 OHM J	
AP31	27M14006LB	TAPE MASKING	3M #232 6.0X2000M		R822	RD-AZ272J-	R CARBON FILM	1/6 2.7K OHM J	
AP31A	27M110620R	TAPE MASKING	SI-600N RED		R823	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
AP31B	27M1106200	TAPE MASKING	SI-600N		R824	RN-AZ182F-	R METAL FILM	1/6 1.8K OHM F	
D802	DZE601C -	DIODE	EG01C		R825	RN-AZ132F-	R METAL FILM	1/6 1.3K OHM F	
D803	DZN4148 -	DIODE	1N4148 AUTO 52MM		R826	RD-AZ223J-	R CARBON FILM	1/6 22K OHM J	
D804	DZUZ6R8BSC	DIODE ZENER	UZ-6.8BSC(6.70-6.97)		R827	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
D805	DUZ2228M -	DIODE ZENER	UZ-228M		R830	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
D826	D Z 1 F 3 E	DIODE FR	1F3E		R832	RD-AZ301J-	R CARBON FILM	1/6 300 OHM J	
D827	D Z 1 F 3 E	DIODE FR	1F3E		U800	97P65456PA	PCB POWER	330X2464 D1B	