

Quality Uncompromised

ROTEL®

Technical Manual

SURROUND SOUND PROCESSOR **RSP-1098** V04

Table of Contents

Specification.....	1
Parts List.....	2~14
Upgrade Procedure.....	15~16
Wiring.....	17
PCB Assembly.....	18~25
Schematic Diagram	26~47

Specifications

Audio

Total Harmonic Distortion
<0.05%

Intermodulation Distortion (60Hz:7KHz)
<0.05%

Frequency Response
10 Hz – 120 kHz, ± 3 dB (analog bypass)
10 Hz – 95 kHz, ± 3 dB (digital input)

Signal to Noise Ratio (IHF A-weighted)
95 dB (analog bypass)
92 dB (Dolby Digital, dts) 0dBFS

Input Sensitivity/Impedance
Line Level: 200 mV/100K ohms

Preamp Output Level/Output Impedance
1.0 V / 250 ohms

Contour (LF/HF)
 ± 6 dB at 50 Hz/15 kHz

Decodable Digital Input Signals

Dolby Digital, Dolby Digital EX, DTS, DTS-ES,
DTS 96/24, LPCM (up to 192K), HDCD, MP3,
MPEG Multichannel

Video

Frequency Response
3 Hz – 10 MHz, ± 3 dB (Composite, S-Video)
3 Hz – 100 MHz, ± 3 dB (Component Video)

note: TFT screen displays Composite Video signal
only.

Signal to Noise Ratio
45 dB

Input Impedance
75 ohms

Output Impedance
75 ohms

Output Level
1.0 volt

General

Power Consumption:
70 watts (normal)
60 watts (TFT screen off)
7.5 watts (standby)

Power Requirements (AC)
115 volts, 60Hz (USA version)
230 volts, 50Hz (CE version)

Weight
15.7 Kg/34.6 lb.

Dimensions (W x H x D)
432 x 164 x 435 mm
17.01" x 6.46" x 17.13"

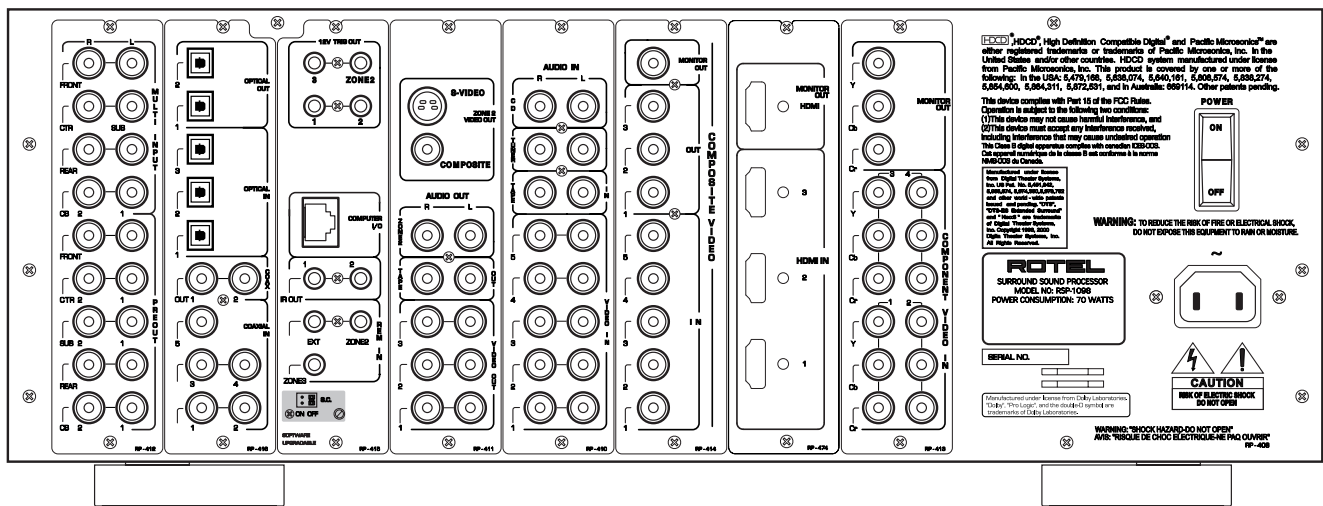
Front Panel Height
(feet removed for rack mount)
150 mm / 5.91"

THE ROTEL CO., LTD.

SHINSEN-BLD. 4F 10-10 SHINSEN-CHO, SHIBUYA-KU,
TOKYO 150-0045, JAPAN

Serial. NO.
Beginning

Y372C-0803/pdf



SYMBOL	PARTS NO.	DESCRIPTION
016 E-1366B00 PCB ASSY		
	501 E-1366	PCB ASSY (AUDIO-3) without PLATE
	013 RP-412	AUDIO-3 PLATE
IC 206,207,215-218	031 NJM5532M	IC (OPEAMP) NJM5532M SMD
IC 205,219	031 OPA2604AP	IC (OPE DUAL) OPA2604AP
IC 208	031 TC9162AF	IC (SWITCH ALLEY) KIC9162AF SMD
IC 201,202	031 TC9482F	IC (VOLUME) KIC9482F SMD
IC 209-214	031 TL072CD	IC (OPE DUAL) TL072CD SMD
QCT202,QFL/R202	032 2J107-GR	FET 2SJ107-GR
QCT201,QFL/R201	032 2K366-GR	FET 2SK366-GR
QMW202	032 KRA107S	TRANSISTOR KRA107S CHIP
Q201,202,QB201,QCW201,QF201,202,203	032 KRC231S	TRANSISTOR KRC231S CHIP
QMW201,QS201,QSW201	032 KRC231S	TRANSISTOR KRC231S CHIP
QCT203,QF205	032 KTC3198Y-AT	TRANSISTOR KTC3198Y-AT
QCT204,QF206	032 TA1016-FG	TRANSISTOR 2SA1016KAA-FG
DB202,DCW202,DF201,202,204,DS202	037 KDS184RTK	DIODE KDS184RTK CHIP
DSW202	037 KDS184RTK	DIODE KDS184RTK CHIP
CCT207,210,CF213,216	041 TEEUFC1E101SB	ELECTROLYTIC CAPACITOR 25V100uF
CB208,209,211,212,CCT206,209	041 TEEUFC1E470B	ELECTROLYTIC CAPACITOR 25V47uF
CCW208,209,CF201,203,209,210,212,215	041 TEEUFC1E470B	ELECTROLYTIC CAPACITOR 25V47uF
CMB209,210,CMC205,206,209,210	041 TEEUFC1E470B	ELECTROLYTIC CAPACITOR 25V47uF
CMF209,210,CMW210,211	041 TEEUFC1E470B	ELECTROLYTIC CAPACITOR 25V47uF
CS201,203,208,209,211,212	041 TEEUFC1E470B	ELECTROLYTIC CAPACITOR 25V47uF
CB/L/R201,204,222,CCT201,203,222	041 TEEUFC1H100LB	ELECTROLYTIC CAPACITOR 50V10uF
CFL/R201,203,222,CMB204,207	041 TEEUFC1H100LB	ELECTROLYTIC CAPACITOR 50V10uF
CMC203,CMF204,207,CMS204,207	041 TEEUFC1H100LB	ELECTROLYTIC CAPACITOR 50V10uF
CMW203,212,CSL/R201,204,222	041 TEEUFC1H100LB	ELECTROLYTIC CAPACITOR 50V10uF
CSW201,204,222	041 TEEUFC1H100LB	ELECTROLYTIC CAPACITOR 50V10uF
CMW207	047 ECJ2VB1H333K	CERAMIC CAPACITOR CHIP 0.033uF
C201-206,CB210,CCT212,CF202,204,208	047 ECJ2VF1H104Z	CERAMIC CAPACITOR CHIP 0.1uF
CS202,204,210,CSW208	047 ECJ2VF1H104Z	CERAMIC CAPACITOR CHIP 0.1uF
CMW206	047 ECJ2VF1H224Z	CERAMIC CAPACITOR CHIP 0.22uF
CCT205,208,CF211,214	047 ECJ2VF1H473Z	CERAMIC CAPACITOR CHIP 0.047uF
CB/L/R203,205,221,223,CCT211,221,223	047 ECJ2VG1H101J	CERAMIC CAPACITOR CHIP 100pF
CFL/R211,221,223	047 ECJ2VG1H101J	CERAMIC CAPACITOR CHIP 100pF
CMB/F/S201,202,205,208	047 ECJ2VG1H101J	CERAMIC CAPACITOR CHIP 100pF
CMC201,204,CMW201,204,205	047 ECJ2VG1H101J	CERAMIC CAPACITOR CHIP 100pF
CSL/R203,205,221,223,CSW203,207,221,223	047 ECJ2VG1H101J	CERAMIC CAPACITOR CHIP 100pF
CMB203,206,CMC202,CMF203,206	047 ECJ2VG1H101J	CERAMIC CAPACITOR CHIP 100pF
CMS203,206,CMW202	047 ECJ2VG1H101J	CERAMIC CAPACITOR CHIP 100pF
CCT204,CFL/R204	047 ECJ2VG1H102J	CERAMIC CAPACITOR CHIP 1000pF
CMW208,209	047 ECJ2VG1H222J	CERAMIC CAPACITOR CHIP 0.0022uF
CFL/R212,CCT213	047 ECJ2VG1H270J	CERAMIC CAPACITOR CHIP 27pF
RCT203,214,RFL/R203,214,RSW208	054 NIC R1/4-101J	NON INDUCTIVE RESISTOR 1/4W 100
RBL/R208,RSL/R208,RSW203	054 NIC R1/4-101J	NON INDUCTIVE RESISTOR 1/4W 100
RSW206	054 NIC R1/4-102J	NON INDUCTIVE RESISTOR 1/4W 1K
RCT205,RFL/R205	054 NIC R1/4-103J	NON INDUCTIVE RESISTOR 1/4W 10K
RBL/R207,RCT204,RFL/R204,RSL/R207	054 NIC R1/4-104J	NON INDUCTIVE RESISTOR 1/4W 100K
RSW204,207	054 NIC R1/4-104J	NON INDUCTIVE RESISTOR 1/4W 100K
RSW205	054 NIC R1/4-153J	NON INDUCTIVE RESISTOR 1/4W 15K
RCT206,212,213,RF216,217,RFL/R206	054 NIC R1/4-242J	NON INDUCTIVE RESISTOR 1/4W 2.4K
RCT207,209,RFL207,209,RFR207,209	054 NIC R1/4-470J	NON INDUCTIVE RESISTOR 1/4W 47
RCT208,RFL/R208	054 NIC R1/4-471J	NON INDUCTIVE RESISTOR 1/4W 470
RCT210,RFL/R210	054 NIC R1/4-564J	NON INDUCTIVE RESISTOR 1/4W 560K
RCT211,RFL211,RFR211	054 NIC R1/4-750J	NON INDUCTIVE RESISTOR 1/4W 75
RBL/R203,221,RCT221,RSW221,RFL/R221	055 ERJ6GEYJ101V	RESISTOR CHIP 100
RMB201,204,RMC201,RMF201,204	055 ERJ6GEYJ101V	RESISTOR CHIP 100
RMS201,204,RMW201,220,RSL/R203,221	055 ERJ6GEYJ101V	RESISTOR CHIP 100
RBL/R201,RCT201,RFL/R201,	055 ERJ6GEYJ101V	RESISTOR CHIP 100
RSL/R201, RSW201	055 ERJ6GEYJ101V	RESISTOR CHIP 100
RBL/R224,RCT224,RMW215,216,RSL/R224	055 ERJ6GEYJ102V	RESISTOR CHIP 1K

SYMBOL	PARTS NO.	DESCRIPTION
R211,212,219	055 ERJ6GEYJ102V	RESISTOR CHIP 1K
RF204-206,RMW210,211,RS204-206	055 ERJ6GEYJ102V	RESISTOR CHIP 1K
RFL/R223,RMB203,206-208	055 ERJ6GEYJ103V	RESISTOR CHIP 10K
RMF203,206,RMS203,206-208	055 ERJ6GEYJ103V	RESISTOR CHIP 10K
RMC203,204,RMW203,209,213,214	055 ERJ6GEYJ103V	RESISTOR CHIP 10K
RSL/R205,RBL/R205	055 ERJ6GEYJ103V	RESISTOR CHIP 10K
RBL/R202,RCT202,RFL/R202,RSL/R202	055 ERJ6GEYJ104V	RESISTOR CHIP 100K
RSW202	055 ERJ6GEYJ104V	RESISTOR CHIP 100K
RCT222,RFL/R222,RSW222	055 ERJ6GEYJ104V	RESISTOR CHIP 100K
RBL/R204,222,RMB202,205,RMC202	055 ERJ6GEYJ104V	RESISTOR CHIP 100K
RMF202,205,RMS202,205	055 ERJ6GEYJ104V	RESISTOR CHIP 100K
RMW202,208,212,217,RSL/R204,222	055 ERJ6GEYJ104V	RESISTOR CHIP 100K
RMW221	055 ERJ6GEYJ123V	RESISTOR CHIP 12K
RBL/R223,RCT223,RMW205,207,RSL/R223	055 ERJ6GEYJ123V	RESISTOR CHIP 12K
RMW204	055 ERJ6GEYJ182V	RESISTOR CHIP 1.8K
RF208	055 ERJ6GEYJ202V	RESISTOR CHIP 2K
RSW223	055 ERJ6GEYJ203V	RESISTOR CHIP 20K
R209,210,RF201,202,RS201,202	055 ERJ6GEYJ221V	RESISTOR CHIP 220
RB206,207,213,214,RCW212,213	055 ERJ6GEYJ221V	RESISTOR CHIP 220
RF214,215,RMB209,210	055 ERJ6GEYJ221V	RESISTOR CHIP 220
RMC205,206,RMF209,210,RMS209,210	055 ERJ6GEYJ221V	RESISTOR CHIP 220
RMW218,219,RS207,208,214,215	055 ERJ6GEYJ221V	RESISTOR CHIP 220
R201-208	055 ERJ6GEYJ222V	RESISTOR CHIP 2.2K
RF218,RBL/R206,RSL/R206	055 ERJ6GEYJ242V	RESISTOR CHIP 2.4K
RMW206	055 ERJ6GEYJ273V	RESISTOR CHIP 27K
RFL/R224,RSW224	055 ERJ6GEYJ332V	RESISTOR CHIP 3.3K
RB209-212,RCW208-211,RF210-213	055 ERJ6GEYJ392V	RESISTOR CHIP 3.9K
RS210-213,RSW212-215	055 ERJ6GEYJ392V	RESISTOR CHIP 3.9K
RMB211,212,RMC207,RMS211,212	055 ERJ6GEYJ432V	RESISTOR CHIP 4.3K
RMF207,208	055 ERJ6GEYJ472V	RESISTOR CHIP 4.7K
RBL/R205,RSL/R205	055 ERJ6GEYJ912V	RESISTOR CHIP 9.1K
RY201-207	063 A12W-K	RELAY A12W-K
JK201	066 C-4764A02	2P PIN JACK (B/B)
JK203,205	066 C-4784A01	4P PIN JACK (R/W)
JK202,204	066 C-4832A01	4P PIN JACK (W/R/BK)
016 E-1367C00 PCB ASSY		
	501 E-1367	PCB ASSY (DSP) without PLATE
	013 RP-416A	DIGITAL PLATE
	019 C-4848A00	SHIELD BOARD ASSY
TD101-107	021 2888000020	DIGITAL COIL
XSD101	023 CXO-001	CRYSTAL 12.288MHZ
LAD103,104,LID101,102,LSD106,	025 BK2125HS102	BEAD COIL
LPW111-113,LSD105	025 BK2125HS102	BEAD COIL
LSD107-110	025 BK2125HS601	BEAD COIL
IC M112	031 39VF040-V34	IC (EEPROM) SST39VF040-70-4C-NH (V3.4)
IC P111	031 74HC00	IC (QUAD NAND GATE) 74HC00 SMD
IC O117	031 74HC04	IC (HEX INVERTER) 74HCU04 SMD
IC 115,116	031 74HC125	IC (QUAD BUFFER) 74HCT125D SMD
IC H106,107	031 74HC157	IC (QUAD MPX) 74VHC157 SMD
IC 114	031 74HC244	IC (OCTAL BUFFER) 74VHC244 SMD
IC D101	031 AK4114VQ	IC (DIR) AK4114VQ SMD
IC A105	031 AK5383VS	IC (ADC) AK5383VS SMD
IC 108	031 AME1117BCBT	IC (REGULATOR) AKE 2.5V SMD
IC 109	031 AME1117CCGT	IC (REGULATOR) ABF 3.3V SMD
IC P110	031 CS49400	IC (DSP) CS49400-3 SMD
IC M113	031 K4S161622D	IC (MEMORY SDRAM) K4S161622D SMD
IC 102,IC A103,104	031 TL072CD	IC (OPE DUAL) TL072CD SMD
DD101-105	037 KDS226RTK	DIODE KDS226RTK CHIP
CAL/R134,CMS170,172,174,176,178,180	047 ECJ2VB1H103K	CERAMIC CAPACITOR CHIP 0.01uF
CDP188	047 ECJ2VC1H122J	CERAMIC CAPACITOR CHIP 1200pF
CAD137,138,141,144,CAL/R129	047 ECJ2VF1H104Z	CERAMIC CAPACITOR CHIP 0.1uF

SYMBOL	PARTS NO.	DESCRIPTION
CD107-109,CDP175,177-183,185-187	047 ECJ2VF1H104Z	CERAMIC CAPACITOR CHIP 0.1uF
CG101-106,CID111,113,116,CMF166,168	047 ECJ2VF1H104Z	CERAMIC CAPACITOR CHIP 0.1uF
CO186,187,CPW157,158,161-163,166,167	047 ECJ2VF1H104Z	CERAMIC CAPACITOR CHIP 0.1uF
CPW169,173,CSD153-155	047 ECJ2VF1H104Z	CERAMIC CAPACITOR CHIP 0.1uF
CAD143,146,CD101-105,CHC181-183	047 ECJ2VF1H104Z	CERAMIC CAPACITOR CHIP 0.1uF
CMF167,CO188,189,CPW170,174	047 ECJ2VF1H104Z	CERAMIC CAPACITOR CHIP 0.1uF
CSD151,152	047 ECJ2VF1H104Z	CERAMIC CAPACITOR CHIP 0.1uF
CAD139,140	047 ECJ2VF1H224Z	CERAMIC CAPACITOR CHIP 0.22uF
CAL/R132,133	047 ECJ2VG1H101J	CERAMIC CAPACITOR CHIP 100pF
CDP189	047 ECJ2VG1H680J	CERAMIC CAPACITOR CHIP 68pF
CPW160,164,172	047 VCFS0J101M	ELECTROLYTIC CAPACITOR 6.3V100uF SMD
CDP176,CFL/R127	047 VCFS0J470M	ELECTROLYTIC CAPACITOR 6.3V47uF SMD
CAD135,136,142,145,CAL/R128	047 VCFS1C100M	ELECTROLYTIC CAPACITOR 16V10uF SMD
CD106,CID110,112,115,CO185	047 VCFS1C100M	ELECTROLYTIC CAPACITOR 16V10uF SMD
CPW156,159,168,171,CAL/R130,131	047 VCFS1C100M	ELECTROLYTIC CAPACITOR 16V10uF SMD
CDP184,CPW165	047 VCFS1H010M	ELECTROLYTIC CAPACITOR 50V1uF SMD
CMS169,171,173,175,177,179	047 VCFS1H0R1M	ELECTROLYTIC CAPACITOR 50V0.1uF SMD
CDP190	047 VCFS1H2R2M	ELECTROLYTIC CAPACITOR 50V2.2uF SMD
CID114	047 VCFS1HR47M	ELECTROLYTIC CAPACITOR 50V0.47uF SMD
CA121-126	047 VCFS1V100M	ELECTROLYTIC CAPACITOR 35V10uF SMD
MRM111-119	055 CN43-331	NETWORK RESISTOR CHIP 330
MRP103-109	055 CN43-103	NETWORK RESISTOR CHIP 10K
MRP101-102	055 CN43-332	NETWORK RESISTOR CHIP 3.3K
RD116,RO185	055 ERJ6GEYJ100V	RESISTOR CHIP 10
RSD151	055 ERJ6GEYJ101V	RESISTOR CHIP 100
RDA141,RID122	055 ERJ6GEYJ101V	RESISTOR CHIP 100
RDP179-182	055 ERJ6GEYJ102V	RESISTOR CHIP 1K
RAL/R129,130,132,133	055 ERJ6GEYJ103V	RESISTOR CHIP 10K
RID121,RO188,189	055 ERJ6GEYJ103V	RESISTOR CHIP 10K
RD106-110	055 ERJ6GEYJ181V	RESISTOR CHIP 180
RID120	055 ERJ6GEYJ183V	RESISTOR CHIP 18K
RAL/R138,139	055 ERJ6GEYJ220V	RESISTOR CHIP 22
RA123-128	055 ERJ6GEYJ221V	RESISTOR CHIP 220
RO190,191	055 ERJ6GEYJ241V	RESISTOR CHIP 240
RAL/R134,RDP183	055 ERJ6GEYJ302V	RESISTOR CHIP 3K
RAL/R135	055 ERJ6GEYJ302V	RESISTOR CHIP 3K
RDP175,176	055 ERJ6GEYJ332V	RESISTOR CHIP 3.3K
RD117-119,RO186,187,194,195	055 ERJ6GEYJ471V	RESISTOR CHIP 470
RAL/R131,RAD144,147	055 ERJ6GEYJ473V	RESISTOR CHIP 47K
RAD145,146	055 ERJ6GEYJ473V	RESISTOR CHIP 47K
RD101-105,111-115,RO196,197	055 ERJ6GEYJ750V	RESISTOR CHIP 75
RAL/R136,137	055 ERJ6GEYJ911V	RESISTOR CHIP 910
JAK102	066 C-4733A03	1P PIN JACK (B)
JAK108	066 C-4764A02	2P PIN JACK (B/B)
JAK101	066 C-4784A02	4P PIN JACK (B)
JAK103-105	066 TORX179L	OPTICAL RECEIVER
JAK106,107	066 TOTX179L	OPTICAL TRANSMITTER
CNP102	068 FHDS20G1	PIN SOCKET 20P
CNP133	068 FHDS22G1	PIN SOCKET 22P
IC M112	068 PLCC32TS	IC SOCKET 32P for ICM112
016 E-1368C00 PCB ASSY		
	501 E-1368	PCB ASSY (CPU) without PLATE
	013 RP-415	CPU PLATE
XT301	023 HC49U-009	CRYSTAL 24.576MHZ
IC 304	031 AT24C16PI-2.7	IC (EEPROM) AT24C16PC
IC 303	031 EN29F002NT-P98	IC (FLASH MEMORY) EN29F002NT-70P
IC 310,311	031 HEF4094BT	IC (SHIFT REGISTER) HEF4094BT SMD
IC 305	031 HIN232CB	IC (RS232) HIN232CB SMD
IC 302	031 IS62C256	IC (SRAM) IS62C256 SMD
IC 306,307,309	031 LTV817	IC (PHOTO COUPLER) LTV817
IC 312	031 TL072CD	IC (OPE AMP) TL072CD SMD

SYMBOL	PARTS NO.	DESCRIPTION
IC 301	031 TMP95C063F	IC (CPU) TMP95C063F
Q305	032 KRC107S	TRANSISTOR KRC107S CHIP
Q301-304	032 KRC231S	TRANSISTOR KRC231S CHIP
D301-307	037 KDS184RTK	DIODE KDS184RTK CHIP
C328	041 SCDA5R5104V	MULTI LAYER CAPACITOR 5.5V0.1F
C323-326	041 TUTES1H010-TF	ELECTROLYTIC CAPACITOR 50V1uF
C322,328	041 TUTES1H100-TF	ELECTROLYTIC CAPACITOR 50V10uF
C314	041 TUTES1H3R3-TF	ELECTROLYTIC CAPACITOR 50V3.3uF
C313	041 TUTES1HR22-TF	ELECTROLYTIC CAPACITOR 50V0.22uF
C303-312,315-321,327,329-335	047 ECJ2VF1H104Z	CERAMIC CAPACITOR CHIP 0.1uF
C301,302	047 ECJ2VG1H270J	CERAMIC CAPACITOR CHIP 27P
RM301,302	055 CN43-101	NETWORK RESISTOR CHIP 100
R321,322,324, 338	055 ERJ6GEYJ100V	RESISTOR CHIP 10
R318-322,325-331,336,337	055 ERJ6GEYJ101V	RESISTOR CHIP 100
R302-306,316,317,323	055 ERJ6GEYJ103V	RESISTOR CHIP 10K
R301,334,335	055 ERJ6GEYJ105V	RESISTOR CHIP 1M
R307-315,332,333	055 ERJ6GEYJ472V	RESISTOR CHIP 4.7K
RY301-304	063 A12W-K	RELAY A12W-K
SW301	064 KSP02H	DIP SWITCH (SOFTWARE UPDATE)
JK301,302,305,306	065 HSJ1002-01-1020	3.5Φ JACK 2P
JK307	065 YKB21-5103A	3.5Φ JACK
JK304	066 SY010-8P/K	RJ45 TERMINAL (8P)
IC 303	068 ISS32T1/06	IC SOCKET for IC303
016 E-1369A00 PCB ASSY		
	501 E-1369	PCB ASSY (AUDIO-2) without PLATE
	013 RP-411	AUDIO-2 PLATE
IC 501	031 TC9163AF	IC (SWITCH ALLEY) KIC9163AF SMD
IC 508	031 TC9459F	IC (VOLUME) KIC9459F SMD
IC 502-507	031 TL072CD	IC (OPE DUAL) TL072CD SMD
IC 509	031 TSH94ID	IC (VIDEO AMP) TSH94ID SMD
Q503,506,509,512,516	032 KRA107S	TRANSISTOR KRA107S CHIP
Q501,502,504,505,507,508,510,511	032 KRC231S	TRANSISTOR KRC231S CHIP
Q513-515,517-519	032 KRC231S	TRANSISTOR KRC231S CHIP
C505-510,513-516,519-522,525-528	041 TUTES1H100-TF	ELECTROLYTIC CAPACITOR 50V10uF
C531,532,535,536,539,540,543,544	041 TUTES1H100-TF	ELECTROLYTIC CAPACITOR 50V10uF
C556-560,565-568,579,580	041 TUTES1H100-TF	ELECTROLYTIC CAPACITOR 50V10uF
C511,512,517,518,523,524,529,530	041 TUTES1H470-TF	ELECTROLYTIC CAPACITOR 25V47uF
C537,538,545,546	041 TUTES1H470-TF	ELECTROLYTIC CAPACITOR 25V47uF
C549-554,561-563	047 ECJ2FB1H104K	CERAMIC CAPACITOR CHIP 0.1uF
C541,542,547,548,571-578	047 ECJ2VG1H101J	CERAMIC CAPACITOR CHIP 100pF
R597,598	055 ERJ6GEYJ100V	RESISTOR CHIP 10
R583,588	055 ERJ6GEYJ101V	RESISTOR CHIP 100
R513,514,523,524,533,534,543,544	055 ERJ6GEYJ102V	RESISTOR CHIP 1K
R565-570,577,578,585,586,590,591	055 ERJ6GEYJ102V	RESISTOR CHIP 1K
R594,595	055 ERJ6GEYJ102V	RESISTOR CHIP 1K
R509,510,519,520,529,530,539,540,551	055 ERJ6GEYJ103V	RESISTOR CHIP 10K
R557,558,573,574,581,584,589,593,599	055 ERJ6GEYJ103V	RESISTOR CHIP 10K
R511,512,521,522,531,532,541,542	055 ERJ6GEYJ104V	RESISTOR CHIP 100K
R547-550,559,560,575,576,582,611,612	055 ERJ6GEYJ104V	RESISTOR CHIP 100K
R571,572	055 ERJ6GEYJ182V	RESISTOR CHIP 1.8K
R505,506,515,516,525,526,535,536,545	055 ERJ6GEYJ221V	RESISTOR CHIP 220
R546,555,556,561-564,579,580,609,610	055 ERJ6GEYJ221V	RESISTOR CHIP 220
R507,508,517,518,527,528,537,538	055 ERJ6GEYJ334V	RESISTOR CHIP 330K
R553,554	055 ERJ6GEYJ334V	RESISTOR CHIP 330K
R587,592,596	055 ERJ6GEYJ750V	RESISTOR CHIP 75
JK501	066 C-4784A01	4P PIN JACK (W/R)
JK502	066 C-4792A01	6P PIN JACK (W/R)
JK504	066 C-4829A01	1P PIN JACK (Y)
JK505	066 YKF51-5527	MINI DIN JACK (S-VIDEO)
016 E-1370A00 PCB ASSY		

SYMBOL	PARTS NO.	DESCRIPTION
	501 E-1370	PCB ASSY (AUDIO-1) without PLATE
	013 RP-410	AUDIO-1 PLATE
IC 401-408	031 NJM5532M	IC (OPE AMP) NJM5532M SMD
IC 409-411	031 TC9163AF	IC (SWITCH ALLEY) KIC9163AF SMD
IC 412,413	031 TL072CD	IC (OPE DUAL) TL072CD SMD
C490,491,494,495	041 TUTES1E470-TF	ELECTROLYTIC CAPACITOR 25V47uF
C408,409,416,417,424,425,432,433	041 TUTES1H100-TF	ELECTROLYTIC CAPACITOR 50V10uF
C440,441,448,449,456,457,464,465	041 TUTES1H100-TF	ELECTROLYTIC CAPACITOR 50V10uF
C474-477,484,485	041 TUTES1H100-TF	ELECTROLYTIC CAPACITOR 50V10uF
C410,411,418,419,426,427,434,435	041 TUTES1H470-TF	ELECTROLYTIC CAPACITOR 50V47uF
C442,443,450,451,458,459,466-473	041 TUTES1H470-TF F	ELECTROLYTIC CAPACITOR 50V47uF
CC480,481,492,493	041 TUTES1H470-TF	ELECTROLYTIC CAPACITOR 50V47uF
C401-403	047 ECJ2VF1H104Z	CERAMIC CAPACITOR CHIP 0.1uF
C404-407,412-415,420-423,428-431	047 ECJ2VG1H101J	CERAMIC CAPACITOR CHIP 100pF
C436-439,444-447,452-455,460-463	047 ECJ2VG1H101J	CERAMIC CAPACITOR CHIP 100pF
C478,479,496-499	047 ECJ2VG1H101J	CERAMIC CAPACITOR CHIP 100pF
R402,403,410,411,418,419,426,427	055 ERJ6GEYJ102V	RESISTOR CHIP 1K
R434,435,442,443,450,451,458,459	055 ERJ6GEYJ102V	RESISTOR CHIP 1K
R480-488,490,491	055 ERJ6GEYJ102V	RESISTOR CHIP 1K
R406,407,414,415,422,423,430,431	055 ERJ6GEYJ103V	RESISTOR CHIP 10K
R438,439,446,447,454,455,462,463	055 ERJ6GEYJ103V	RESISTOR CHIP 10K
R472,473,494,495	055 ERJ6GEYJ103V	RESISTOR CHIP 10K
R404,405,412,413,420,421,428,429	055 ERJ6GEYJ104V	RESISTOR CHIP 100K
R436,437,444,445,452,453,460,461	055 ERJ6GEYJ104V	RESISTOR CHIP 100K
R474,475,504,505	055 ERJ6GEYJ104V	RESISTOR CHIP 100K
R408,409,416,417,424,425,432,433	055 ERJ6GEYJ221V	RESISTOR CHIP 220
R440,441,448,449,456,457,464-469	055 ERJ6GEYJ221V	RESISTOR CHIP 220
R476-479,496-503,506-521	055 ERJ6GEYJ221V	RESISTOR CHIP 220
R470,471,492,493,522,523	055 ERJ6GEYJ334V	RESISTOR CHIP 330K
R496,497	055 ERJ6GEYJ471V	RESISTOR CHIP 470R
JK402	066 C-4784A01	4P PIN JACK (W/R)
JK401,403	066 C-4792A01	6P PIN JACK (W/R)
016 E-1513A00 PCB ASSY		
	501E-1513	PCB ASSY (HDMI) without PLATE
	013RP-474	HDMI PLATE
L1-8,15-18	021 ACM2012D	SMD COIL EMC
L9-12	021 ACM2012H	SMD COIL EMC
L13,14	025 BK2125HS101	CHIP BEADS
IC6,15	031 74HC04	SMD IC
IC8,17	031 74HC123	SMD IC
IC7,11,14	031 74HC125	SMD IC
IC9,16	031 74HC74	SMD IC
IC3	031 AME1117CCGT	SMD IC
IC4,13	031 AME8801SEEV	SMD IC
IC10,12	031 LTC1694	SMD IC
IC19	031 SN74AHC1G08DBV	SMD IC
IC5	031 SN74CB3Q3305	SMD IC
IC18	031 SN74HC253DR	SMD IC
IC1	031 TMDS341	SMD IC
Q1,2,6,8,10-13,15	032 2N7002	TR FET
Q4,5,7,9,14,16	032 KRC107S	CHIP TRANSISTOR
Q3	032 KRC231S	CHIP TRANSISTOR
C1-6,9,18	034 AVRL101	SMD VARISTOR EMC
D7-9	034 KDS184RTK	CHIP DIODE
ZD1-8	034 KDZ6.2V	SMD ZENER DIODE
D1-6,10,11	034 RCLAMP0514M	SMD DIODE EMC
C46,51,53,57-64,CG1-4	047 3535104122	CHIP CERAMIC CAPACITOR 104C

SYMBOL	PARTS NO.	DESCRIPTION
C8,12,14,16,22,32,34,36-38,40,42-44	047 3535104122	CHIP CERAMIC CAPACITOR 104C
C41,55	047 3535152122	CHIP CERAMIC CAPACITOR 1500pF
C48,49	047 3535200122	CHIP CERAMIC CAPACITOR 20pF
C10,13,50	047 ECFS1A221M	SMD ELECTROLYTIC CAPACITOR 10/220
C7	047 ECFS1A471M	SMD ELECTROLYTIC CAPACITOR 10/470
C11	047 ECFS1C100M	SMD ELECTROLYTIC CAPACITOR 16/10
C35,52	047 ECFS1C101M	SMD ELECTROLYTIC CAPACITOR 16/100
C47	047 ECFS1C220M	SMD ELECTROLYTIC CAPACITOR 16/22
C45	047 ECFS1E4R7M	SMD ELECTROLYTIC CAPACITOR 25/4.7
C19-21,23-31	047 ECJ1VB1H103K	CHIP CERAMIC CAPACITOR 0.01U
C39,56	047 ECJ1VB1H103K	CHIP CERAMIC CAPACITOR 103C
C15,17,33,54	047 ECJ1VG1H102J	CHIP CERAMIC CAPACITOR 1000pF
R52,75	055 ERJ3EKF1000V	CHIP RESISTOR 100R
R2,6,15,23,28,40,41,44,46,49,57,60-62	055 ERJ3EKF1001V	CHIP RESISTOR 1K
R65,66,72,77,79	055 ERJ3EKF1001V	CHIP RESISTOR 1K
R26,35,42,51,54,56,73,74	055 ERJ3EKF1002V	CHIP RESISTOR 10K
R58	055 ERJ3EKF1003V	CHIP RESISTOR 100K
R1,5,11,12,78	055 ERJ3EKF10R0V	CHIP RESISTOR 10R
R48,71	055 ERJ3EKF1801V	CHIP RESISTOR 1.8K
R14,31,32,36,43,63,67	055 ERJ3EKF2001V	CHIP RESISTOR 2K
R59,64	055 ERJ3EKF3001V	CHIP RESISTOR 3K
R33,34,45,68	055 ERJ3EKF3301V	CHIP RESISTOR 3.3K
R37,38	055 ERJ3EKF3901V	CHIP RESISTOR 3.9K
R29	055 ERJ3EKF4641V	CHIP RESISTOR 4.64K
R27,47,50,69,70	055 ERJ3EKF4701V	CHIP RESISTOR 4.7K
R30,53,55,76,82-86	055 ERJ3EKF4702V	CHIP RESISTOR 47K
R39	055 ERJ3EKF6802V	CHIP RESISTOR 68K
R24	055 ERJ3GEY0R00V	CHIP RESISTOR 0R
R3,4,7-10,80,81	055 ERJ3GEY0R00V	CHIP RESISTOR 0R
JACK4-7	066 C-4963A01	HDMI SOCKET
016 E-1372B00 PCB ASSY		
	501 E-1372	PCB ASSY (COMPOSITE VIDEO) without PLATE
	013 RP-414	COMPOSITE PLATE
L603,604	021 LAL02TB100M	MICRO INDUCTOR 10uH
L601,602	021 LAL02TB101M	MICRO INDUCTOR 100uH
XT603,604	023 HC49U-001WR	CRYSTAL 14.31818MHZ
IC 603,604	031 KS5520-1	IC (SCREEN DISPLAY) KS5520 SMD
IC 601,602	031 TC9163AF	IC (SWITCH ALLEY) KIC9163AF SMD
IC 605,606	031 TSH94ID	IC (VIDEO AMP) TSH94ID SMD
Q603,604	032 KRC107M	TRANSISTOR KRC107M
Q601,602	032 KTA1271	TRANSISTOR KTA1271
C601-604	034 T1N4148-86	DIODE 1N4148TAP-50
C619-623,642,645-648,651,652,659	041 TUTES1A101-TF	ELECTROLYTIC CAPACITOR 10V100uF
C607,613,630,636,618,641,642	041 TUTES1A471-TF	ELECTROLYTIC CAPACITOR 10V470uF
C603,609,626,632	041 TUTES1H010-TF	ELECTROLYTIC CAPACITOR 50V1uF
C601,602,624,625,661	041 TUTES1H100-TF	ELECTROLYTIC CAPACITOR 50V10uF
C608,611,631,634	041 TUTES1HR47-TF	ELECTROLYTIC CAPACITOR 50V0.47uF
C616,617,639,640	043 TC50VCH220	CERAMIC CAPACITOR 50V22pF
C604,605,627,628	043 TC50VCH560	CERAMIC CAPACITOR 50V56pF
C612,635	047 ECJ2VB1H103K	CERAMIC CAPACITOR CHIP 0.01uF
C643,644,649,650	047 ECJ2VB1H223K	CERAMIC CAPACITOR CHIP 0.022uF
C606,614,629,637,662,663	047 ECJ2VB1H224Z	CERAMIC CAPACITOR CHIP 0.22uF
C653-658,660	047 ECJ2VF1H104Z	CERAMIC CAPACITOR CHIP 0.1uF
C610,615,633,638	047 ECJ2VG1H101J	CERAMIC CAPACITOR CHIP 100pF
R615,638,639,648,649,673	055 ERJ6GEYJ100V	RESISTOR CHIP 10
R625,629,633,640,644,666,686	055 ERJ6GEYJ101V	RESISTOR CHIP 100
R603,604,605-608,626,642	055 ERJ6GEYJ102V	RESISTOR CHIP 1K

SYMBOL	PARTS NO.	DESCRIPTION
R643,646,647,661-665,667,681,621,622	055 ERJ6GEYJ102V	RESISTOR CHIP 1K
R630,634,636,641,645,678,684	055 ERJ6GEYJ103V	RESISTOR CHIP 10K
R609,668,624,676	055 ERJ6GEYJ104V	RESISTOR CHIP 100K
R618,682	055 ERJ6GEYJ105V	RESISTOR CHIP 1M
R617,675,628,632	055 ERJ6GEYJ122V	RESISTOR CHIP 1.2K
R687,688	055 ERJ6GEYJ151V	RESISTOR CHIP 150
R623,677	055 ERJ6GEYJ181V	RESISTOR CHIP 180
R610,669	055 ERJ6GEYJ204V	RESISTOR CHIP 200K
R601,602,659,660	055 ERJ6GEYJ221V	RESISTOR CHIP 220
R612,671	055 ERJ6GEYJ222V	RESISTOR CHIP 2.2K
R614,679	055 ERJ6GEYJ223V	RESISTOR CHIP 22K
R613,672	055 ERJ6GEYJ2R2V	RESISTOR CHIP 2.2
R616,674,623,677	055 ERJ6GEYJ392V	RESISTOR CHIP 3.9K
R637,,683,685	055 ERJ6GEYJ472V	RESISTOR CHIP 4.7K
R611,670	055 ERJ6GEYJ512V	RESISTOR CHIP 5.1K
R620,680	055 ERJ6GEYJ563V	RESISTOR CHIP 56K
R619,635,650-658	055 ERJ6GEYJ750V	RESISTOR CHIP 75
R627,631	055 ERJ6GEYJ911V	RESISTOR CHIP 910
SW601-603	066 4TR-2964#10	3P PIN JACK (Y)
	016 E-1432A00 PCB ASSY	
	501 E-1432	PCB ASSY (COMPONENT VIDEO) without PLATE
	013 RP-413	COMPONENT PLATE
L813	021 LAL02TB4R7K	MICRO INDUCTOR 4.7uH
L801	021 LAL02TB100K	MICRO INDUCTOR 10uH
LV803,807-812	021 LAL02TB270K	MICRO INDUCTOR 10uH
L802, LV804-806	021 LAL02TB101K	MICRO INDUCTOR 100uH
XTV804	023 CSB503F2	CERAMIC RESONATOR CSBLA503KECF02-B0 500
XTD851	023 HC49U-001WR	CRYSTAL 14.31818MHZ
XTV803	023 HC49US-010	CRYSTAL 3.579545MHZ
XTV802	023 HC49US-011	CRYSTAL 4.433619MHZ
IC801-803	031 ADG704BRM	IC (4CH MPX) ADG704BRM SMD
IC807,ICS804	031 ADG774BR	IC (MPX) ADG774BR SMD
ICV812	031 KIA7809AF	IC (REGULATOR) +9V SMD
IC D806	031 KS5520-1	IC (SCREEN DISPLAY) KS5520 DIP
IC805	031 LT1397CS	IC (OPE AMP) LT1397CS SMD
ICV811,815	031 NJM2283M	IC (OPE AMP) NJM2283M SMD
ICV813	031 TA1270BF	IC (DSP) TA1270BF SMD
ICV810	031 TC90A69F	IC (VIDEO CONVERTER) TC90A69F SMD
ICV814	031 TDA4665T	IC (DELAY LINE) TDA4665T SMD
ICV809	031 TSH94ID	IC (VIDEO AMP) TSH94ID SMD
QV808	032 KRC107M	TRANSISTOR KRC107M
QD802	032 KTA1271	TRANSISTOR KTA1271
QL801	032 KTC3203	TRANSISTOR KTC3203
QV803-807	032 TC3708-ST	TRANSISTOR 2SC3708AA-ST
DZ805	034 TRD5.1JST1	ZENER DIODE 5.1V
D801,806,DV804	034 T1N4148-86	DIODE 1N4148TAP-50
DG802,803	037 KDS226RTK	CHIP DIODE
C842	041 TUTES0J102-7TF	ELECTROLYTIC CAPACITOR 6.3V1000uF
C813-815,822,824,825,827-832,836-838	041 TUTES1A101-7TF	ELECTROLYTIC CAPACITOR 10V100uF
CD866,867,CV801,802,805-807,811,813	041 TUTES1A101-7TF	ELECTROLYTIC CAPACITOR 10V100uF
CV819,835,843,873,876,887,889	041 TUTES1A101-7TF	ELECTROLYTIC CAPACITOR 10V100uF
C826,840,841,CD853,863	041 TUTES1A471-7TF	ELECTROLYTIC CAPACITOR 10V470uF
CV865	041 TUTES1E101-7TF	ELECTROLYTIC CAPACITOR 25V100uF
CV881	041 TUTES1E220-7TF	ELECTROLYTIC CAPACITOR 25V22uF
CV809	041 TUTES1E221-7TF	ELECTROLYTIC CAPACITOR 25V220uF
C809-812,CV827,829,851,853,885	041 TUTES1E470-7TF	ELECTROLYTIC CAPACITOR 25V47uF
CD852,855,CV855	041 TUTES1H010-7TF	ELECTROLYTIC CAPACITOR 50V1uF

SYMBOL	PARTS NO.	DESCRIPTION
CG871,CV815,839,844,878,879,883,884	041 TUTES1H100-7TF	ELECTROLYTIC CAPACITOR 50V10uF
CV861,863	041 TUTES1H2R2-7TF	ELECTROLYTIC CAPACITOR 50V2.2uF
C801-808	041 TUTES1H4R7-7TF	ELECTROLYTIC CAPACITOR 50V4.7uF
CV859	041 TUTES1HR22-7TF	ELECTROLYTIC CAPACITOR 50V0.22uF
CD851,859	041 TUTES1HR47-7TF	ELECTROLYTIC CAPACITOR 50V0.47uF
CD864,865	043 TC50VCH220	CERAMIC CAPACITOR 50V22pF
CD856,857	043 TC50VCH560	CERAMIC CAPACITOR 50V56pF
CV858	044 TBF014D0222J	M.P CAPACITOR 63V0.0022uF
CV864	044 TBF014D0223J	M.P CAPACITOR 63V0.022uF
CV862,875	044 TBF074D0104J	M.P CAPACITOR 63V0.1uF
CV820	044 TBF074D0474J	M.P CAPACITOR 63V0.47uF
CD860,CV821-826,828,830,834,852,860	047 ECJ2VB1H103K	CERAMIC CAPACITOR CHIP 0.01uF
CV866,874,877,886,C816-818	047 ECJ2VB1H103K	CERAMIC CAPACITOR CHIP 0.01uF
CV812,838,848,849,888	047 ECJ2VB1H103K	CERAMIC CAPACITOR CHIP 0.01uF
CL875,876	047 ECJ2VB1H223K	CERAMIC CAPACITOR CHIP 0.022uF
CD854,862,868	047 ECJ2VB1H224Z	CERAMIC CAPACITOR CHIP 0.22uF
C823,833-834,839,CG872-882,CV803,804	047 ECJ2VF1H104Z	CERAMIC CAPACITOR CHIP 0.1uF
CV808,810,814,816,836,840,845,854	047 ECJ2VF1H104Z	CERAMIC CAPACITOR CHIP 0.1uF
CV867-872,880,882	047 ECJ2VF1H104Z	CERAMIC CAPACITOR CHIP 0.1uF
CD858,861	047 ECJ2VG1H101J	CERAMIC CAPACITOR CHIP 100pF
CV842,847,856,857	047 ECJ2VG1H120J	CERAMIC CAPACITOR CHIP 12pF
CV817,818,841,846	047 ECJ2VG1H220J	CERAMIC CAPACITOR CHIP 22pF
C845,846	047 ECJ2VG1H560J	CERAMIC CAPACITOR CHIP 56pF
CV837	047 ECJ2VG1H681J	CERAMIC CAPACITOR CHIP 680pF
R814-817,836,RD860,RL873,RV810-812	055 ERJ6GEYJ100V	RESISTOR CHIP 10
RV842,853,857,862,865,868	055 ERJ6GEYJ100V	RESISTOR CHIP 10
RL874,RV808,825,826,854,855	055 ERJ6GEYJ101V	RESISTOR CHIP 100
R844,RD851-853,863,RV813,847	055 ERJ6GEYJ102V	RESISTOR CHIP 1K
R813,837,RV801,805,809,821,823,824	055 ERJ6GEYJ103V	RESISTOR CHIP 10K
RV833,839,856,863,864,866,867	055 ERJ6GEYJ103V	RESISTOR CHIP 10K
R822,825,828,832,838-840,RD856,871	055 ERJ6GEYJ104V	RESISTOR CHIP 100K
RD864	055 ERJ6GEYJ105V	RESISTOR CHIP 1M
RD861,RV819,831,837	055 ERJ6GEYJ122V	RESISTOR CHIP 1.2K
RV804,817	055 ERJ6GEYJ151V	RESISTOR CHIP 150
RD857,RL875-877	055 ERJ6GEYJ152V	RESISTOR CHIP 1.5K
RV820,832,838	055 ERJ6GEYJ153V	RESISTOR CHIP 15K
RD870	055 ERJ6GEYJ181V	RESISTOR CHIP 180
RD855	055 ERJ6GEYJ204V	RESISTOR CHIP 200K
RD854,RV848,849	055 ERJ6GEYJ2R2V	RESISTOR CHIP 2.2
R818-821	055 ERJ6GEYJ220V	RESISTOR CHIP 22
RD859	055 ERJ6GEYJ223V	RESISTOR CHIP 22K
R833	055 ERJ6GEYJ241V	RESISTOR CHIP 240
R823,824,826,827,829,830	055 ERJ6GEYJ271V	RESISTOR CHIP 270
R834,RV828,852	055 ERJ6GEYJ331V	RESISTOR CHIP 330
RV851	055 ERJ6GEYJ332V	RESISTOR CHIP 3.3K
RV850	055 ERJ6GEYJ333V	RESISTOR CHIP 33K
RD862	055 ERJ6GEYJ392V	RESISTOR CHIP 3.9K
RV814,815	055 ERJ6GEYJ4R7V	RESISTOR CHIP 4.7
R831	055 ERJ6GEYJ470V	RESISTOR CHIP 47
RL878,RV858,859	055 ERJ6GEYJ472V	RESISTOR CHIP 4.7K
RD858	055 ERJ6GEYJ512V	RESISTOR CHIP 5.1K
RV822,834,840	055 ERJ6GEYJ561V	RESISTOR CHIP 560
RV860,861	055 ERJ6GEYJ562V	RESISTOR CHIP 5.6K
RD872	055 ERJ6GEYJ563V	RESISTOR CHIP 56K
R801-812,841-843,RV807,844,846	055 ERJ6GEYJ750V	RESISTOR CHIP 75
RV818,829,830,835,836	055 ERJ6GEYJ821V	RESISTOR CHIP 820
RLY801	063 A12W-K	RELAY A12W-K

SYMBOL	PARTS NO.	DESCRIPTION
JK803	066 C-4830A01	3P PIN JACK (G/B/R)
JK801,802	066 C-4833A01	6P PIN JACK (G/B/R)
016 E-1374B00 PCB ASSY		
	501 E-1374	PCB ASSY (DAC)
IC 251-254	031 CS43122	IC (DAC) CS43122 SMD
IC 255-258	031 TL072CD	IC (OPE DUAL) TL072CD SMD
QCB252,QCW252,QF252,QS252	032 KRA107S	TRANSISTOR CHIP KRA107S
QCT251,QFL251,QFR251	032 KRC107S	TRANSISTOR CHIP KRC107S
QCB251,QCW251,QF251,QS251	032 KRC107S	TRANSISTOR CHIP KRC107S
QBL/R252,QCT252,QFL/R252,QSL/R252	032 KRC231S	TRANSISTOR CHIP KRC231S
QSW252	032 KRC231S	TRANSISTOR CHIP KRC231S
CSW252,253	047 ECJ2VB1H103K	CERAMIC CAPACITOR CHIP 0.01uF
CCT255,CFL255,CFR255	047 ECJ2VB1H223K	CERAMIC CAPACITOR CHIP 0.022uF
CCB254,256,258,260	047 ECJ2VF1H104Z	CERAMIC CAPACITOR CHIP 0.1uF
CCW252,254,256,258,260	047 ECJ2VF1H104Z	CERAMIC CAPACITOR CHIP 0.1uF
CF252,254,256,258,260	047 ECJ2VF1H104Z	CERAMIC CAPACITOR CHIP 0.1uF
CS252,254,256,258,260	047 ECJ2VF1H104Z	CERAMIC CAPACITOR CHIP 0.1uF
CCB252	047 ECJ2VF1H104Z	CERAMIC CAPACITOR CHIP 0.1uF
CBL/R252,253,CCT252,253,CFL/R252,253	047 ECJ2VG1H102J	CERAMIC CAPACITOR CHIP 0.001uF
CSL/R252,253	047 ECJ2VG1H102J F	CERAMIC CAPACITOR CHIP 0.001u
CBL/R251,CCT251,CFL/R251,CSL/R251	047 ECJ2VG1H222J	CERAMIC CAPACITOR CHIP 0.0022uF
CSW251	047 ECJ2VG1H222J	CERAMIC CAPACITOR CHIP 0.0022uF
CCB253,255,CCW253,255 CF253,255	047 VCF50J101M	ELECTROLYTIC CAPACITOR 6.3V100uF SMD
CS253,255	047 VCF50J101M	ELECTROLYTIC CAPACITOR 6.3V100uF SMD
CBL/R254,CCB251,257,259,CCT254	047 VCF51C100M	ELECTROLYTIC CAPACITOR 16V10uF SMD
CCW251,257,259,CF251,257,259,CSW254	047 VCF51C100M	ELECTROLYTIC CAPACITOR 16V10uF SMD
CFL/R254,CS251,257,259,CSL/R254	047 VCF51C100M	ELECTROLYTIC CAPACITOR 16V10uF SMD
CCB261,262,CCW261,262,CF261,262	047 VCF51V100M	ELECTROLYTIC CAPACITOR 35V10uF SMD
CS261,262	047 VCF51V100M	ELECTROLYTIC CAPACITOR 35V10uF SMD
RBL/R251-257,RCT251-257,RFL/R251-257	055 ERJ6GEYJ102V	RESISTOR CHIP 1K
RSL/R251-257,RSW251-257	055 ERJ6GEYJ102V	RESISTOR CHIP 1K
RCB252,RCW252,RF252,RS252	055 ERJ6GEYJ102V	RESISTOR CHIP 1K
RCB251,RCW251,RF251,RS251	055 ERJ6GEYJ103V	RESISTOR CHIP 10K
RBL/R258,RCT258,RFL/R258,RSL/R258	055 ERJ6GEYJ104V	RESISTOR CHIP 100K
RSW258	055 ERJ6GEYJ104V	RESISTOR CHIP 100K
RCB255,RCW255,RF255,RS255	055 ERJ6GEYJ104V	RESISTOR CHIP 100K
RCB253,254,RCW253,254,RF253,254	055 ERJ6GEYJ221V	RESISTOR CHIP 220
RS253,254	055 ERJ6GEYJ221V	RESISTOR CHIP 220
016 E-1375C00 PCB ASSY		
	501 E-1375	PCB ASSY (BUS MAIN)
CP31-37	068 C-4834A01	PCB EDGE CONNECTOR 120P
016 X-1376C01-02 PCB ASSY		
	501 X-1376	PCB ASSY (POWER-2, BUS-2)
LF51	021 TRL-356	LINE CHOKE COIL LF-2217 150uH
Q51	032 TC3708-ST	TRANSISTOR 2SC3708AA-ST
D1069	034 T1N4004-TB	DIODE 1N4004-E
F51,52	036 5ST2	FUSE 250V2A
C51	044 DE1307E472M	SPARK KILLER 4700pF
RLY51	063 DG1U-24	RELAY DG24D1-O(M)-2
CT53,54,56	068 4428504746	CONNECTOR WAFER 4P 7.92MM
CP2	068 B11B-PH-KS	CONNECTOR WAFER 11P
CP42	068 B13B-PH-KS	CONNECTOR WAFER 13P
CP41	068 B15B-PH-KS	CONNECTOR WAFER 15P
CT51,52,CTA115,230,CTD115,230	068 B2P3-VH	CONNECTOR WAFER 2P
CP55	068 B3B-PH-KS	CONNECTOR WAFER 3P
CP43	068 B4B-PH-KS	CONNECTOR WAFER 4P

SYMBOL	PARTS NO.	DESCRIPTION
CP201	068 C-4834A01	PCB EDGE CONNECTOR 120P
	016 E-1377B00 PCB ASSY	
	501 E-1377	PCB ASSY (POWER-1)
IC 5,7,8	031 NJM7805FA	IC (REGULATOR +5V)
IC 3	031 NJM7806FA	IC (REGULATOR +6V)
IC 9,10,11	031 NJM7812FA	IC (REGULATOR +12V)
IC 1	031 NJM7818FA	IC (REGULATOR +18V)
IC 4	031 NJM7906FA	IC (REGULATOR -6V)
IC 2	031 NJM7918FA	IC (REGULATOR -18V)
Q1(HS5)	032 C4883-Y	TRANSISTOR 2SC4883A-Y
Q2,3	032 TC3708-ST	TRANSISTOR 2SC3708AA-ST
D1-24,31,32	034 T1N4004-TB	DIODE 1N4004-E
D30	034 T1N4148-86	DIODE 1N4148TAP-50
DZ1,2	034 TRD12JST1	ZENER DIODE 12V (AB2)
DZ3	034 TRD4.3EST1	ZENER DIODE 4.3V (AB2)
F1-8	036 5ST2	FUSE 250V2A
C10,11,20,22,24,42,46,54,56,64	041 TUTES1H010-TF	ELECTROLYTIC CAPACITOR 50V1uF
C34	041 TUTES1H220-TF	ELECTROLYTIC CAPACITOR 50V22uF
C33	041 TUTES1V331-TS	ELECTROLYTIC CAPACITOR 35V330uF
C17,18,40,44	041 VR1C103	ELECTROLYTIC CAPACITOR 16V10000pF
C32,52	041 VR1V222	ELECTROLYTIC CAPACITOR 35V2200pF
C6,7,62	041 VZ1V682	ELECTROLYTIC CAPACITOR 35V6800pF
RY1.2	043 TC500V103	CERAMIC CAPACITOR 500V0.01uF
C8,9,19,21,23,41,45,53,55,63	044 50MSAN104J	SF CAPACITOR 50V0.1uF
C1-5,12-16,27-31,35-39,43,47-51	044 TBF014E0103J	M.P CAPACITOR 100V0.01uF
C57-61	044 TBF014E0103J	M.P CAPACITOR 100V0.01uF
R12	053 CR14-102J-A	CARBON RESISTOR 1/4W 1K
R15,17	053 CR14-220J-A	CARBON RESISTOR 1/4W 22
R19	053 CR14-331J-A	CARBON RESISTOR 1/4W 330
R14,16,18	053 CR14-332J-A	CARBON RESISTOR 1/4W 3.3K
R13	053 CR14-473J-A	CARBON RESISTOR 1/4W 47K
R5,6	054 1WS2.2JF	MOF RESISTOR 1W 2.2
RY1,2	063 OSA-SS-224DM5	RELAY OSA-SS-224DM5 24V
CP6,7	068 C-4834A01	PCB EDGE CONNECTOR 120P
	016 X-1378A01-06 PCB ASSY	
	501 X-1378	PCB ASSY (FRONT, KEY, VOLUME)
RMC351	031 SBX3010-52B	IC (REMOTE RECEIVER) SBX3010-52B
Q351	032 TC3708-ST	TRANSISTOR 2SC3708AA-ST
D351,352	034 T1N4148-86	DIODE 1N4148TAP-50
C354	041 TUTES1H4R7-TF	ELECTROLYTIC CAPACITOR 50V4.7uF
C351,352,355,356	043 TC50V101	CERAMIC CAPACTITOR 50V100pF
C353	043 TC50V473	CERAMIC CAPACTITOR 50V0.047uF
R351-354	053 CR14-103J-A	CARBON RESISTOR 1/4W 10K
R356	053 CR14-181J-A	CARBON RESISTOR 1/4W 180
R357 for RED LED	053 CR14-181J-A	CARBON RESISTOR 1/4W 180
R358	053 CR14-470J-A	CARBON RESISTOR 1/4W 47
R357 for BLUE LED	053 CR14-471J-A	CARBON RESISTOR 1/4W 470
R355	053 CR14-472J-A	CARBON RESISTOR 1/4W 4.7K
R359-362	053 CR14-473J-A	CARBON RESISTOR 1/4W 47K
ESW351	056 C-4678A01	ROTARY ENCODER (VOLUME)
ESW352	056 C-4678A04	ROTARY ENCODER (FUNCTION)
SW357	061 4TR-2947	PUSH SWITCH (STANDBY)
SW351-356	061 C-4679A03	TACT SWITCH 5MM GRY SKHHAMA010
CP352,CNP352	068 S11B-PH-KS	CONNECTOR WAFER
CNP5	068 S14B-PH-KS	CONNECTOR WAFER
CP354-356	068 S2B-PH-KS	CONNECTOR WAFER

SYMBOL	PARTS NO.	DESCRIPTION
CP351	068 S4B-PH-KS	CONNECTOR WAFER
CP353	068 S6B-PH-KS	CONNECTOR WAFER
	OTHERS	
	011 FP-558B-B	BLACK PANEL ASSY
	011 FP-558B-S	SILVER PANEL ASSY
	011 UF3-01B00	H/S PANEL H150
	012 C-4711A03	KNOB 43F NO MARK (BLACK)
	012 C-4711A03S	KNOB 43F NO MARK (SILVER)
	012 RV4-09A00	PUSH BUTTON 14F (BLACK)
	012 RV4-09A01	PUSH BUTTON 14F (SILVER)
	012 SK3-05A00	TACT BUTTON 9KEY (BLACK)
	012 SK3-05A01	TACT BUTTON 9KEY (SILVER)
	014 UF3-06A01	UPPER COVER
	019 C-670#18	FELT 56 Φ
	019 PK4-07A00	METAL FOOT 60 Φ
	021 LF171A00	LINE FILTER
	022 T-1090N03	POWER TRANSFORMER (for ANALOG)
	022 T-1091N05	POWER TRANSFORMER (for DIGITAL)
	034 SEL1124R	LED (RED) 1x5
	034 SEL1E24W	LED (BLE) 1x5
	035 A070FW03	TFT LCD DISPLAY for V02
	061 C-4838A00	ROCKER SWITCH SR1N6BB
	069 C-4629A01	AC 2P INLET 6102.3100 (WIRING)
	072 C-4621A03	AC CORD SET SJT AWG16 UL for USA
	072 C-4622A02	AC CORD SET for AUSTRALIA
	072 C-4623A02	AC CORD SET for U.K.
	072 C-4624A03	AC CORD SET for EUROPE
	072 C-4738A01	PIN PLUG CORD
	072 C-4786A01	COMPUTER I/O CABLE (UPGRADE CABLE)
	081 UN3-19A00	INSIDE CARTON
	081 UN3-20A00	SHIPPING CARTON
	081 Z-208	STYROL MOULDING
	082 OMRSP-1098	OWNER'S MANUAL
	092 RR-1050	REMOTE CONTROL UNIT
	092 JEL070W	TFT LCD DRIVER PCB ASSY for V02

Addendum List for Black and Silver

RSP1098/ V02/ V03/ V04

SYMBOL	PARTS	DESCRIPTION
①	011FP-558C-B	SUB PANEL (BLK)
②	011FP-558C-S	SUB PANEL (SLV)
③	011 UF3-01B00	H/S PANEL H150
	012C-4711A03	KNOB 43F NO MARK (BLK)
	012C-4711A03S	KNOB 43F NO MARK (SLV)
	012RV4-09A00	PUSH BUTTON 14F (BLK)
	012RV4-09A01	PUSH BUTTON 14F (SLV)
	012SK3-05A00	TACT BUTTON 9KEY(BLK)
	012SK3-05A01	TACT BUTTON 9KEY(SLV)
	019C-4714A00	POWER KNOB RING 14F (BLK)
	019C-4714A01	POWER KNOB RING 14F (SLV)
	019PR4-12B00	KNOB RING(RED) 46F
	019PR4-12B01	KNOB RING(BLU) 46F
	034SEL1124R	LED (RED) 1X5
	034SEL1E24W	LED (BLU) 1X5

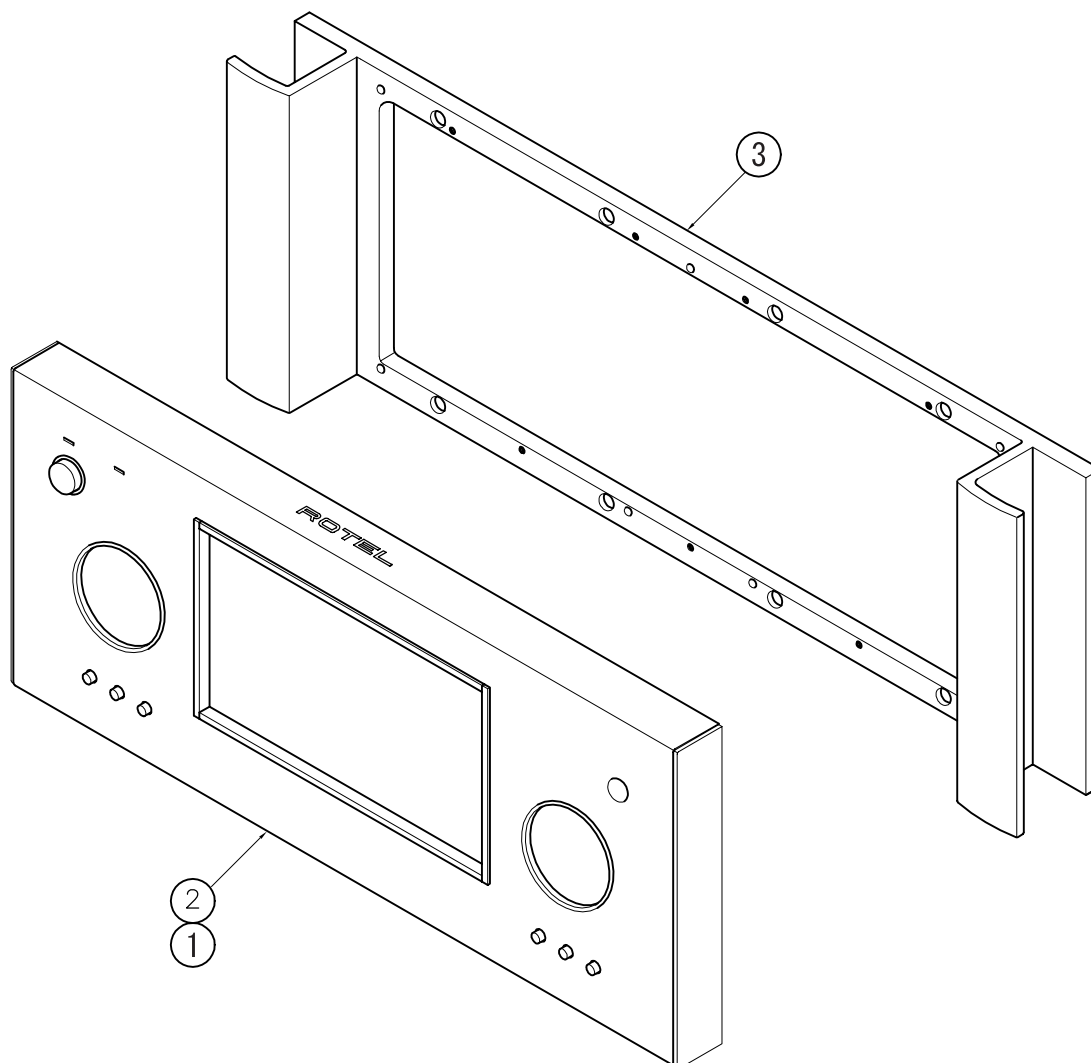
Panel Assy is included:

Side Cap

Knob Ring

Tact buttons

LED



Procedure of RSP-1098 software upgrade (Revised)

Install the upgrade program in your PC which we provide "Tera Term Pro", or "MTTY" from Rotel Web.

Setup the configuration of the upgrade program. See attached "Tera Term Pro User Manual".

Prepare the appropriate upgrade software in your PC before proceed the upgrade.

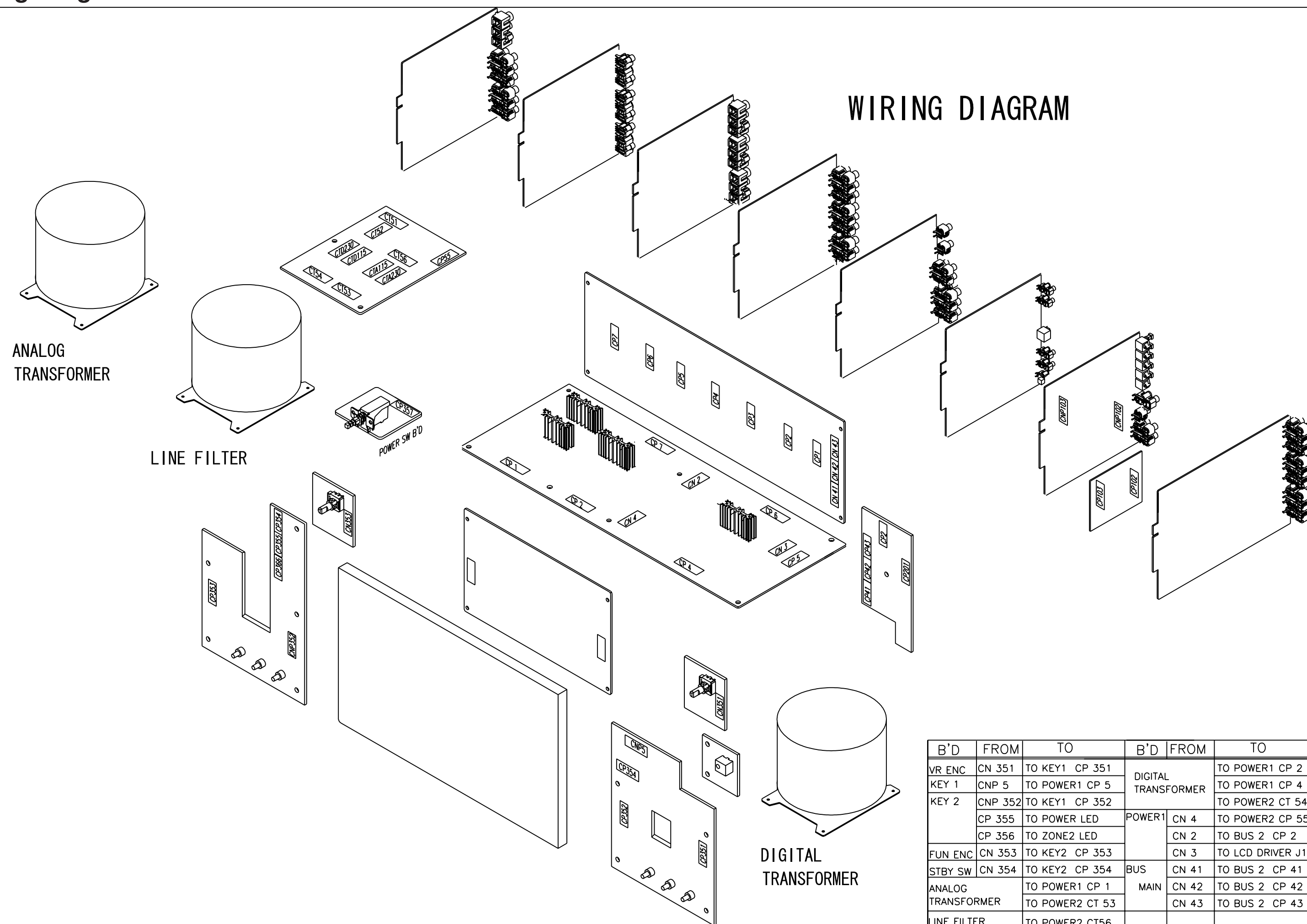
1. Power RSP-1098 off (rear panel master power switch).
2. Remove all of connections between RSX-1067 and other equipments.
3. Connect RSP-1098 and PC with RJ45/DB9 cable (Computer I/O cable). RJ45 jack should be connected to COMPUTER I/O port in RSP-1098 rear panel. DB9 jack will be connected to PC serial port (ex. COM1 or COM2,,).
4. Switch down the SOFTWARE UPGRADABLE key to ON in RSP-1098 rear panel.
5. Open "Tera Term Pro" program (or "MTTY" program)
6. Power RSP-1098 on (rear master power switch) and then options message appears in HyperTerminal screen. In the message, select number 1. Erase of current software begins.
7. When erasing finished, download file message appears. Select "FILE" and "Send File", then appeared dialogue box. Check mark in "Option "Binary"", find the appropriate software and click to open. The software will begin to upgrade.
8. When the upgrade finished, check message appears. In the message, compare received data checksum with rom checksum. If they are same, the upgrade is done correctly.
9. Power RSP-1098 off (rear master power switch) and switch up the SOFTWARE UPGRADABLE key to Off position in the rear panel.
10. Disconnect the cable between PC and the RSP-1098.
11. Power RSP-1098 on (rear master power switch and front standby switch) and set the default setting on the OSD screen menu with connecting a TV monitor. And press MUTE button 5sec to confirm if the software version is upgraded in the front display.

Applying HDMI pcb

RSP1098 can replace to HDMI path-through unit board used main software with used V2.2X, V3.1X, V2.5X and V4.1X in the unit. Please replace S-Video card to HDMI board and check the current software to upgrade with appropriate software with matched new installing software.

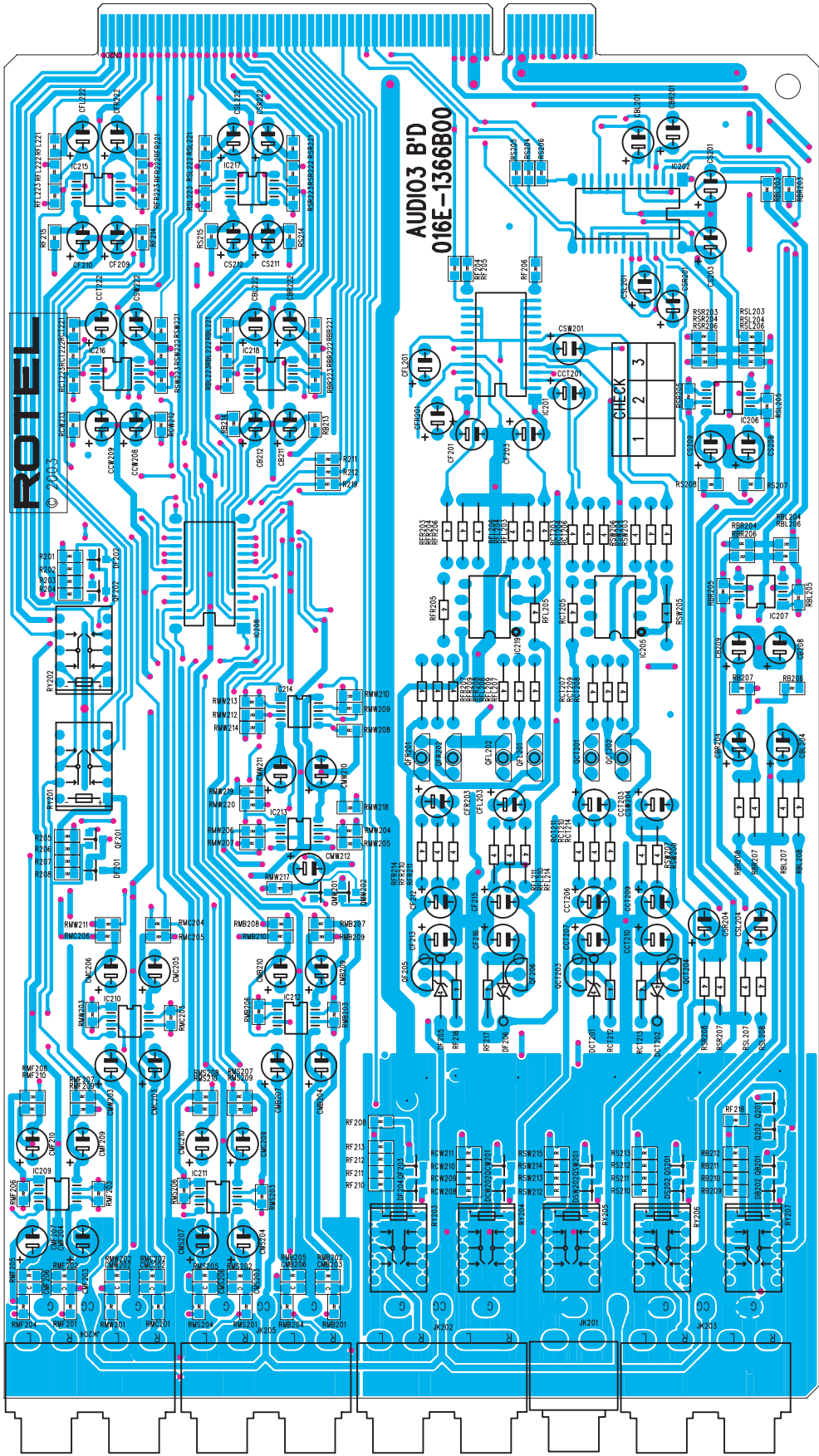
<Memo>

WIRING DIAGRAM

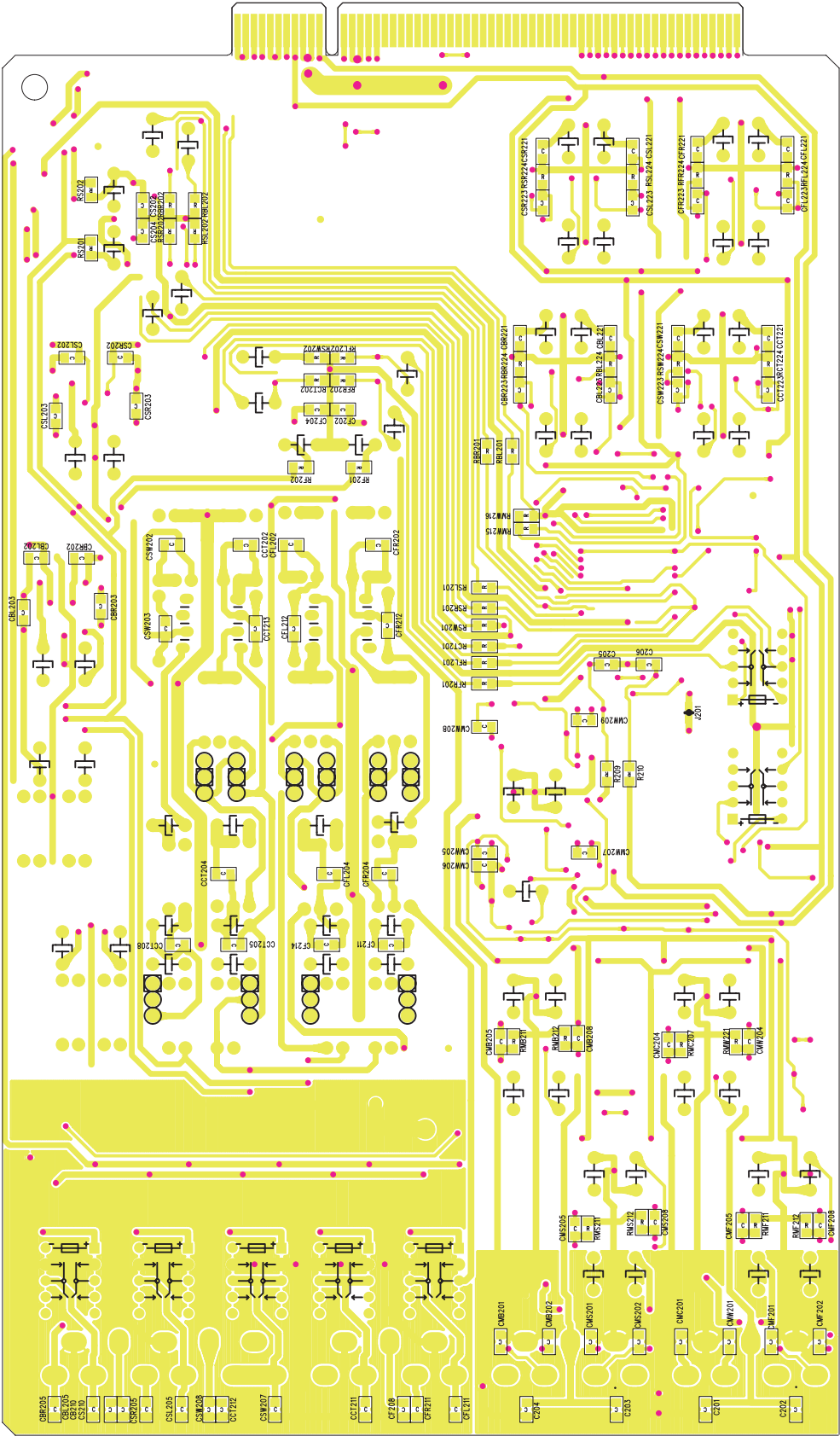


B'D	FROM	TO	B'D	FROM	TO
VR ENC	CN 351	TO KEY1 CP 351	DIGITAL TRANSFORMER		TO POWER1 CP 2
KEY 1	CNP 5	TO POWER1 CP 5			TO POWER1 CP 4
KEY 2	CNP 352	TO KEY1 CP 352			TO POWER2 CT 54
	CP 355	TO POWER LED	POWER1	CN 4	TO POWER2 CP 55
	CP 356	TO ZONE2 LED		CN 2	TO BUS 2 CP 2
FUN ENC	CN 353	TO KEY2 CP 353		CN 3	TO LCD DRIVER J1
STBY SW	CN 354	TO KEY2 CP 354	BUS MAIN	CN 41	TO BUS 2 CP 41
ANALOG TRANSFORMER		TO POWER1 CP 1		CN 42	TO BUS 2 CP 42
		TO POWER2 CT 53		CN 43	TO BUS 2 CP 43
LINE FILTER		TO POWER2 CT56			

Top Side View

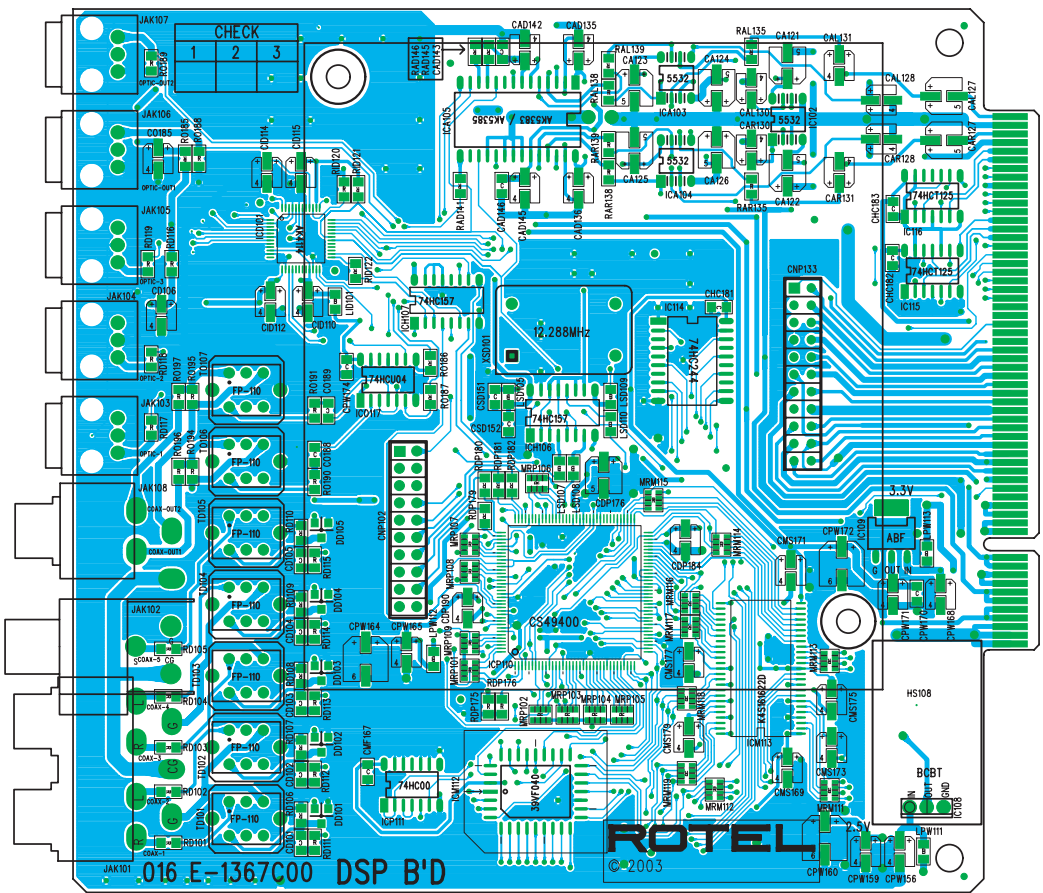


Bottom Side View



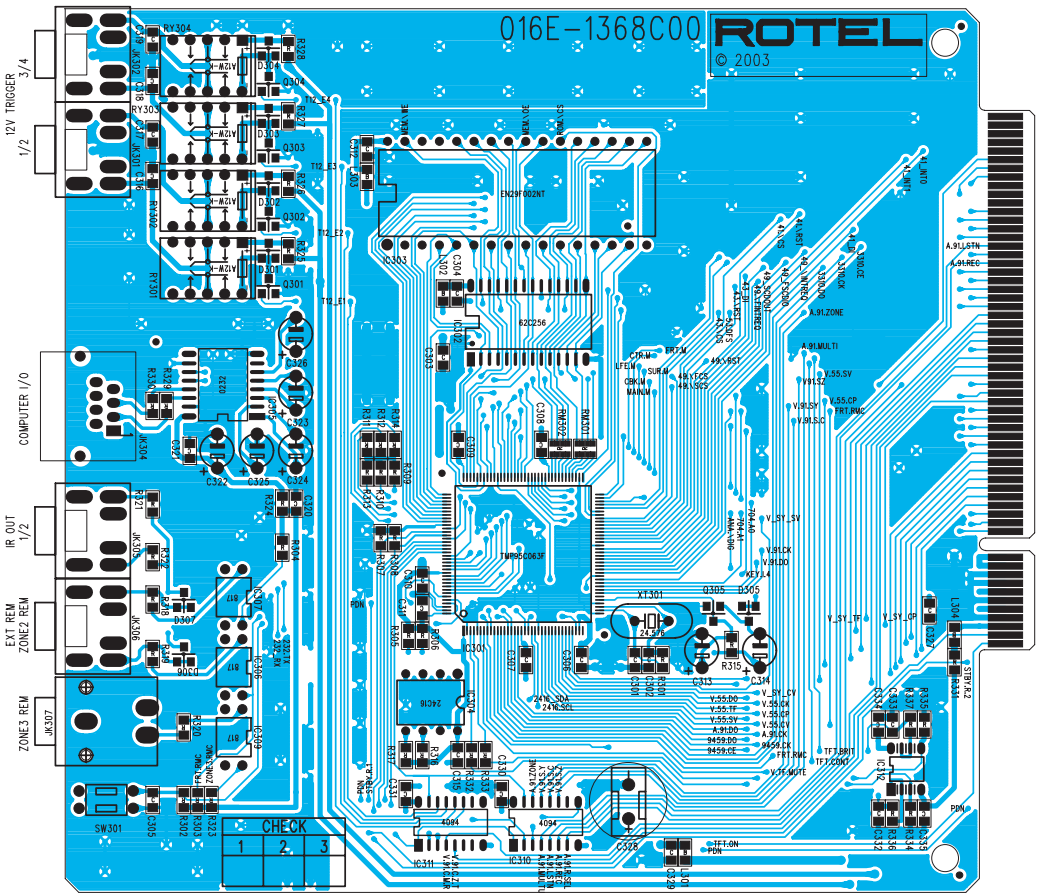
Top View

DSP PCB 016 E-1367C00

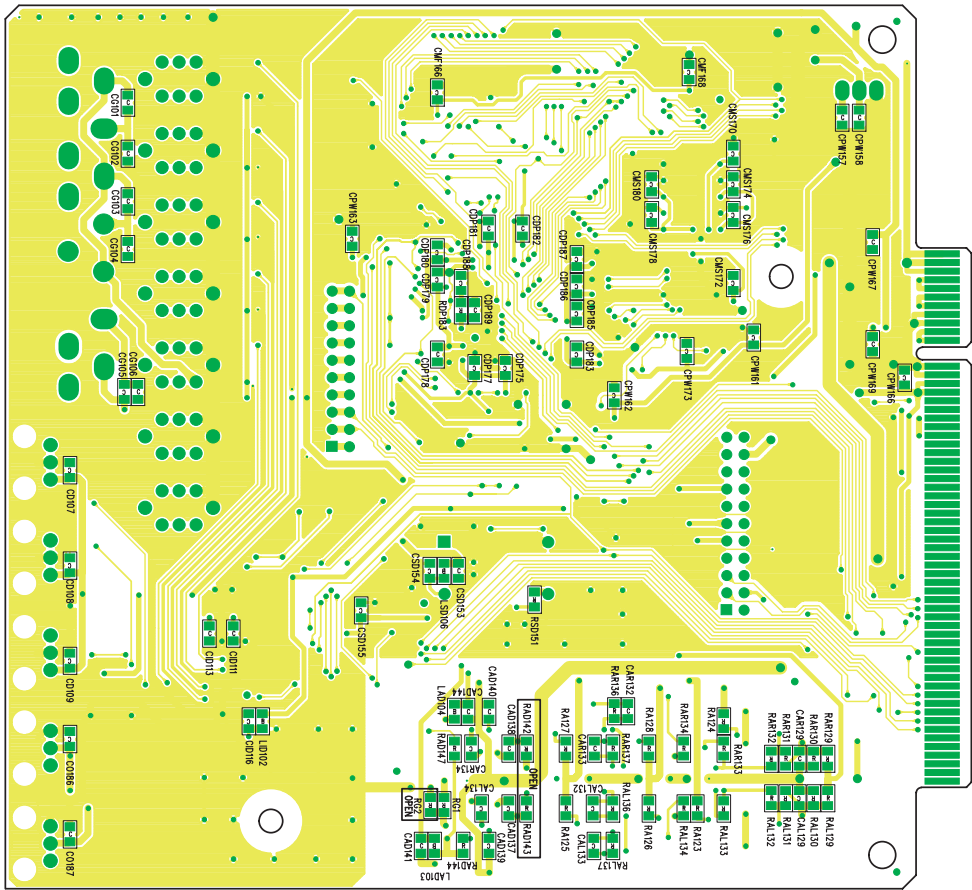


Top View

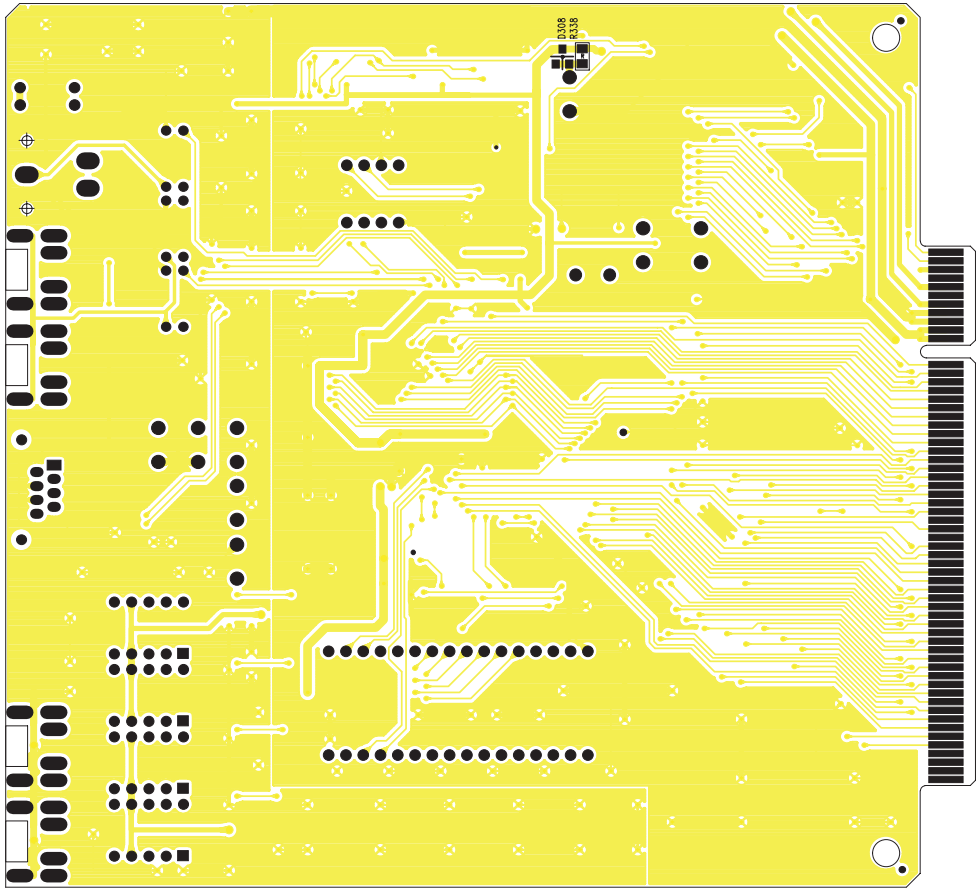
CPU PCB 016 E-1368C00



Bottom View

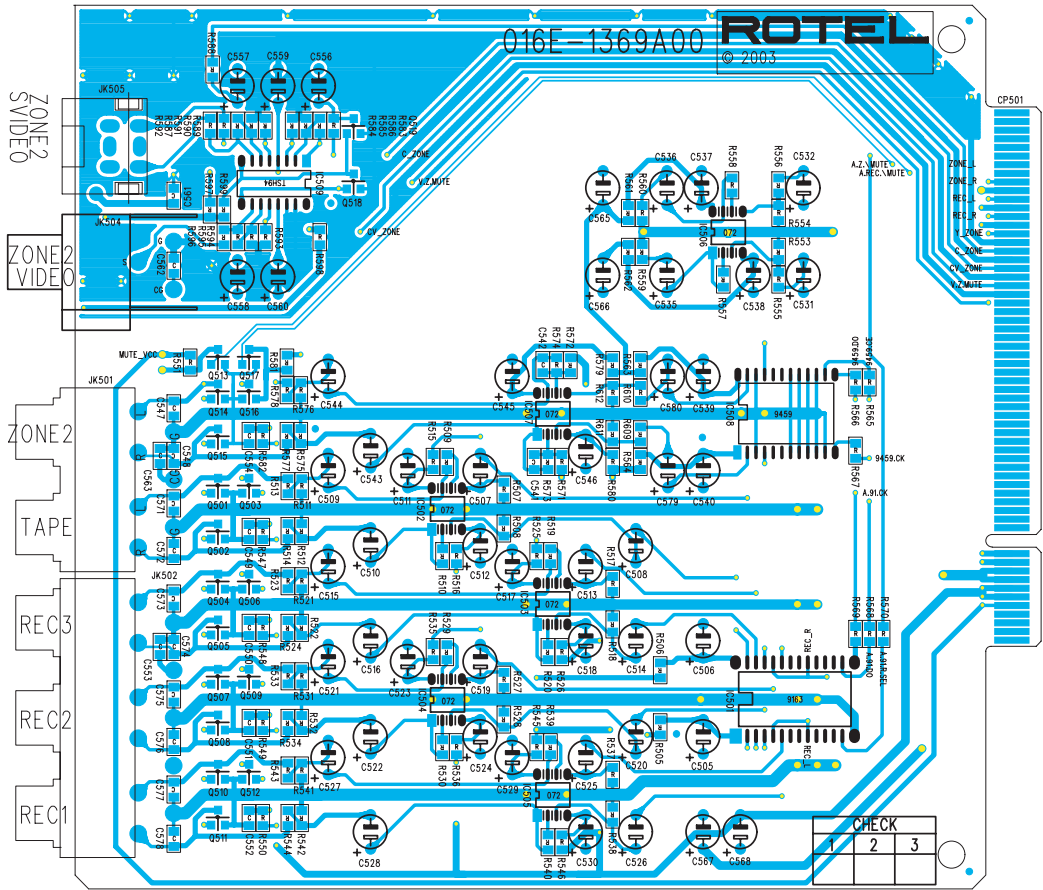


Bottom View

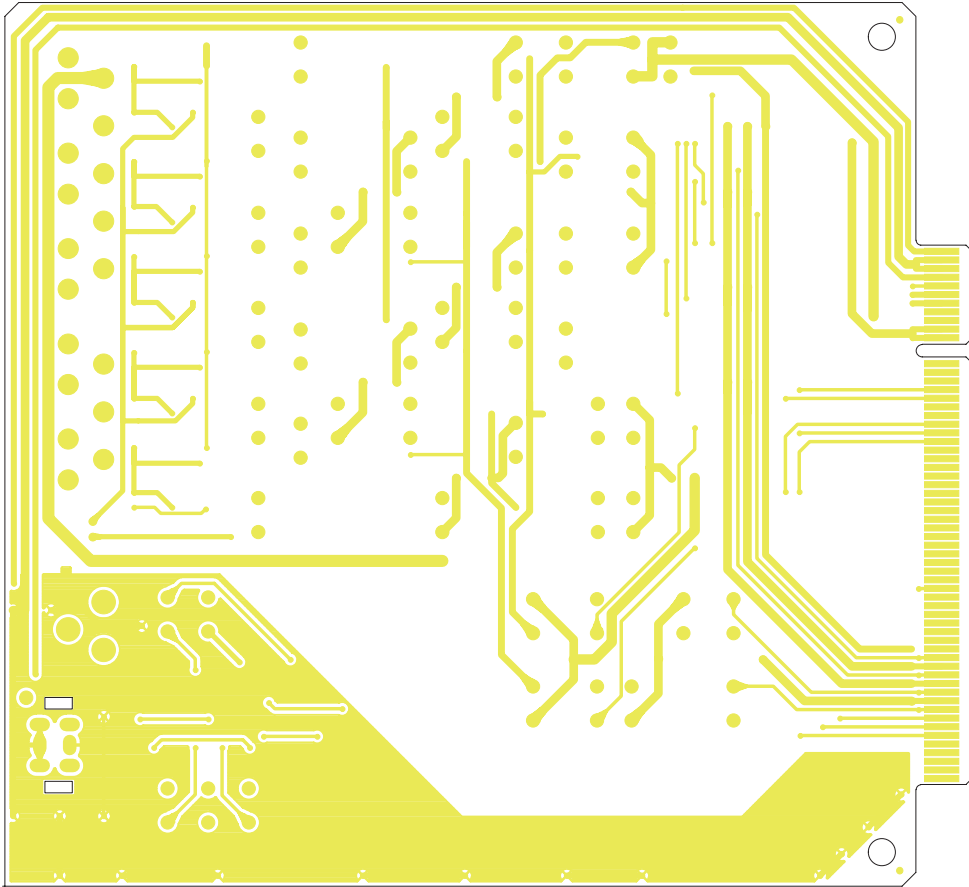


Audio2 016 E-1369A00

Top View

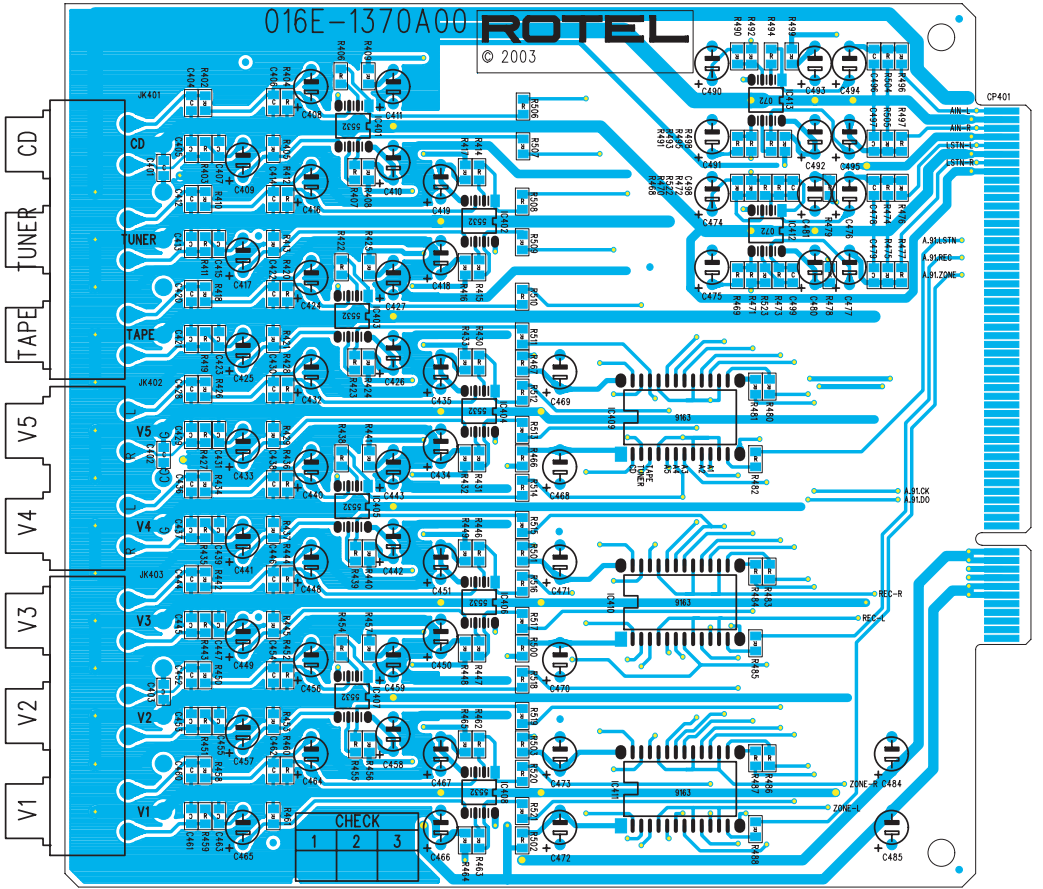


Bottom View

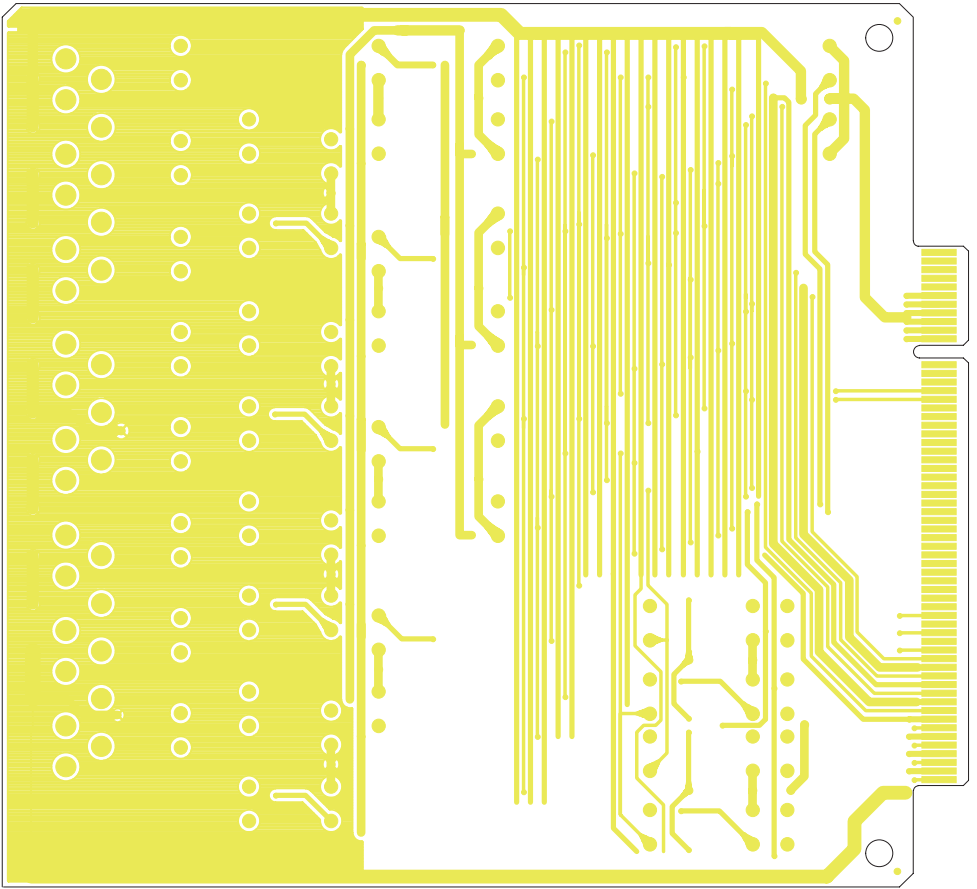


Audio1 016 E-1370A00

Top View

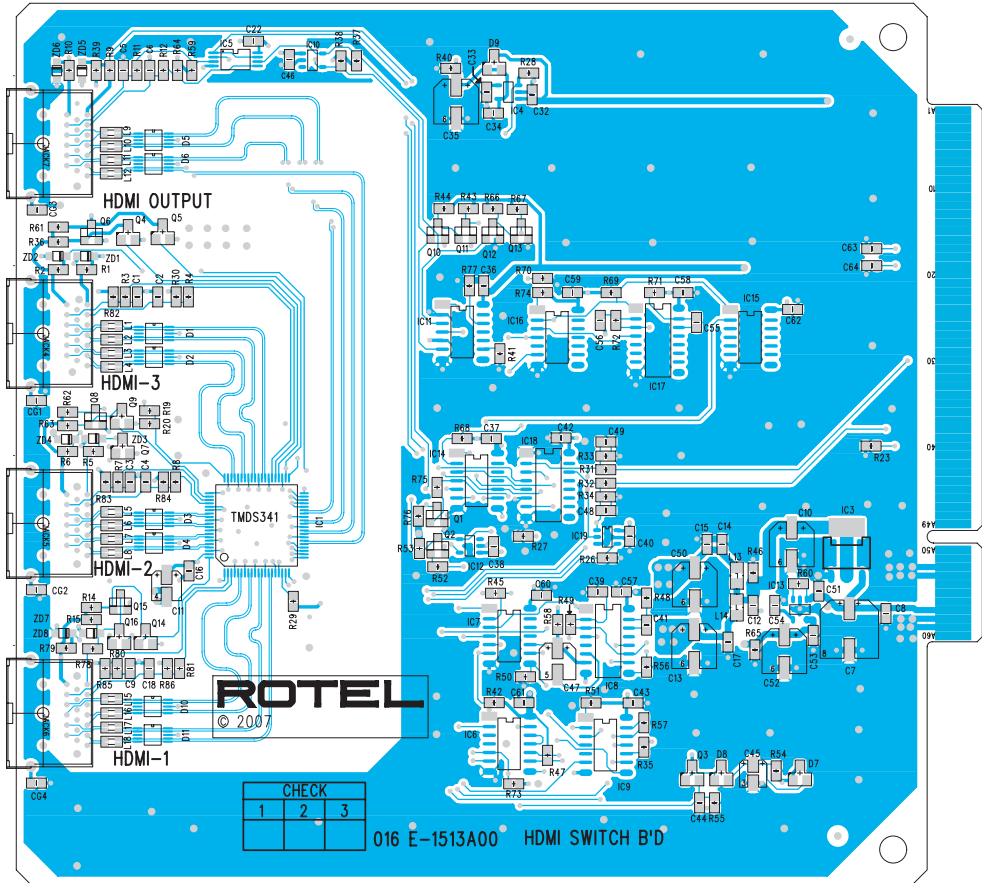


Bottom View



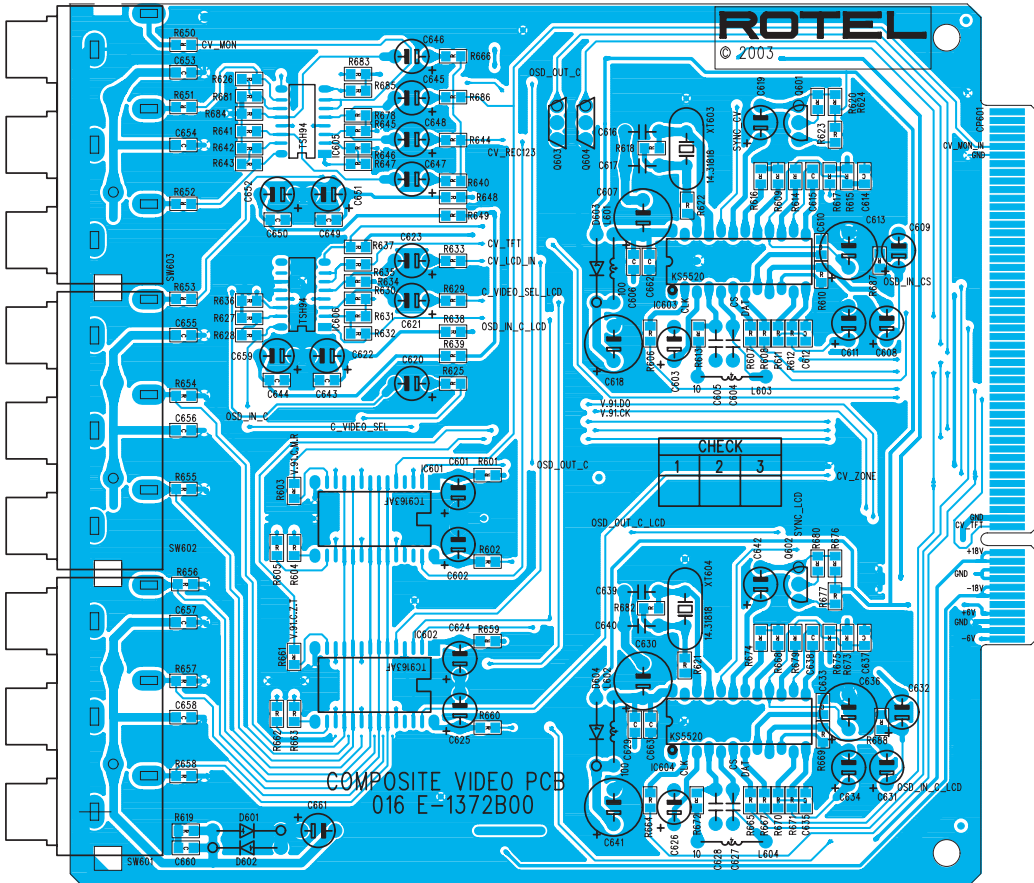
Top View

HDMI PCB 016 E-1513A00



Top View

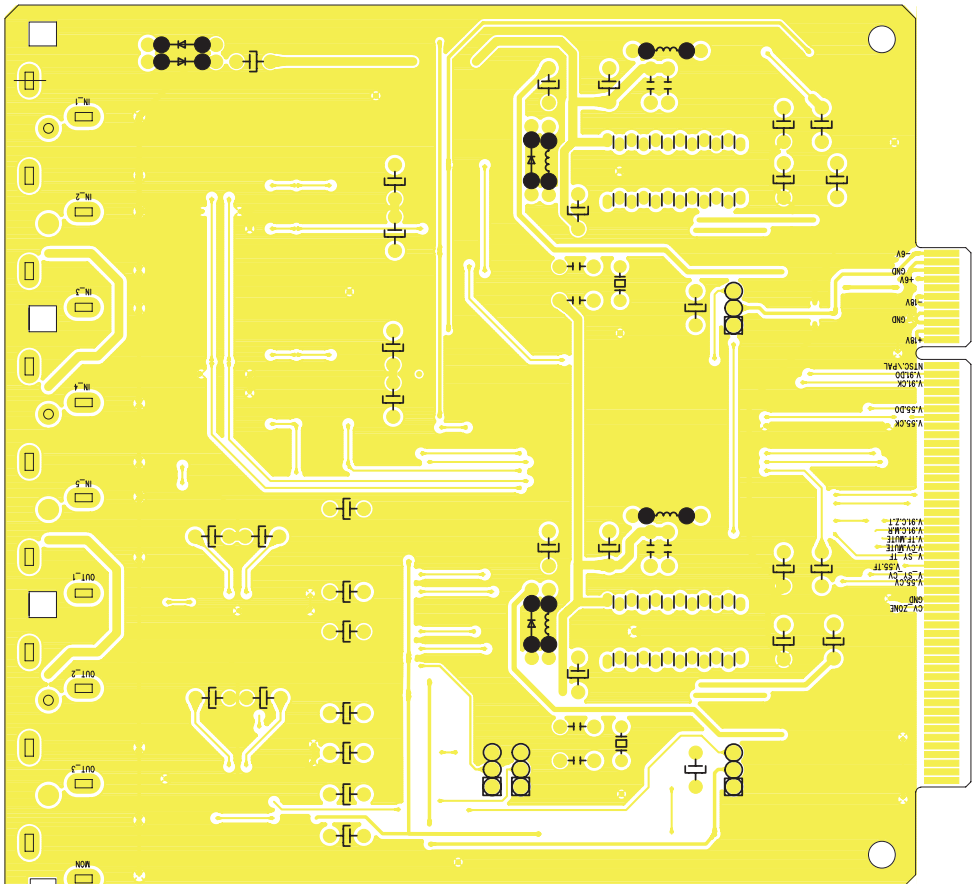
Composite PCB 016 E-1372B00



Bottom View

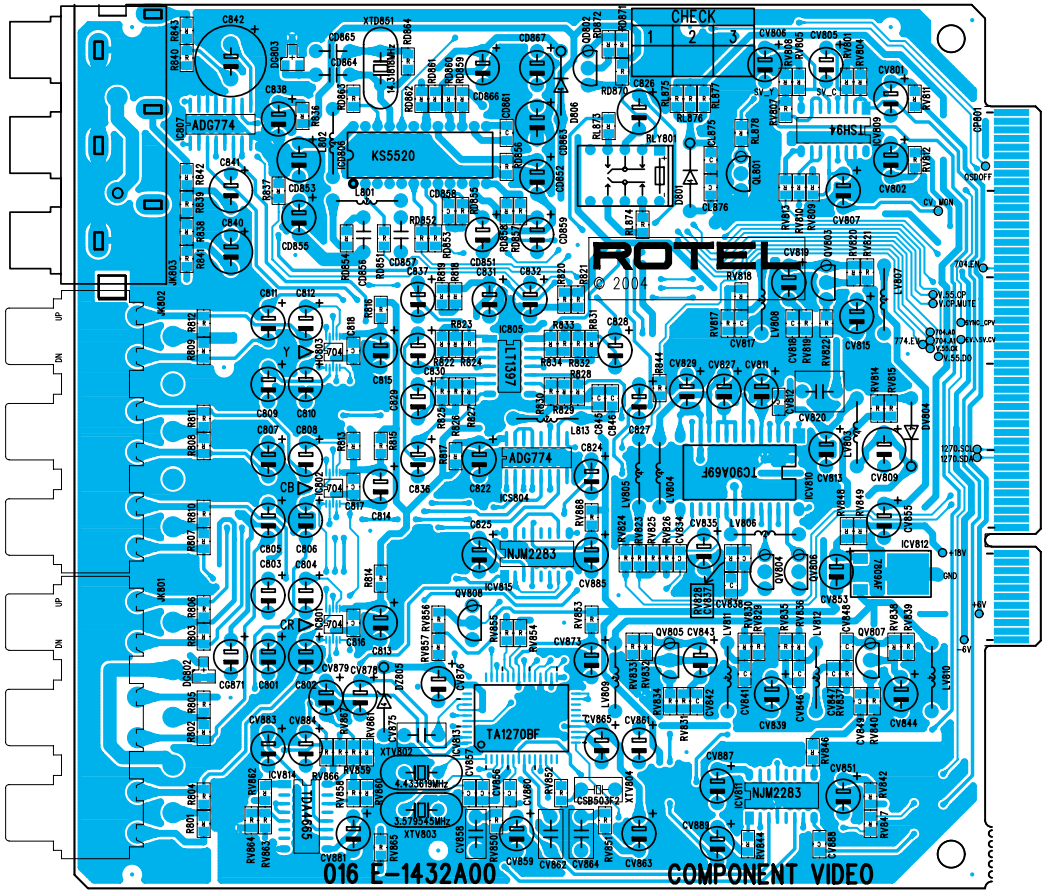


Bottom View



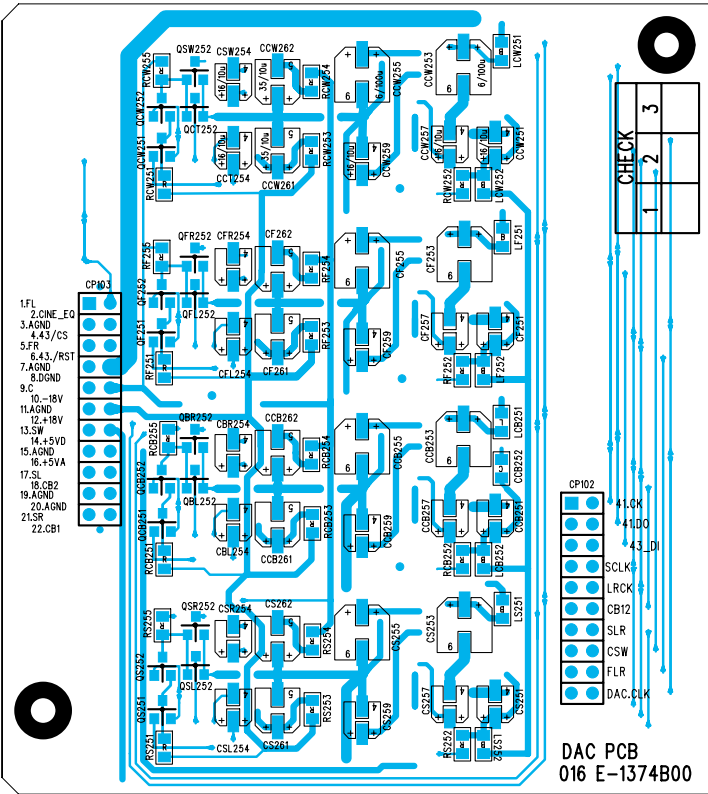
Component Video PCB 016 E-1432A00

Top View

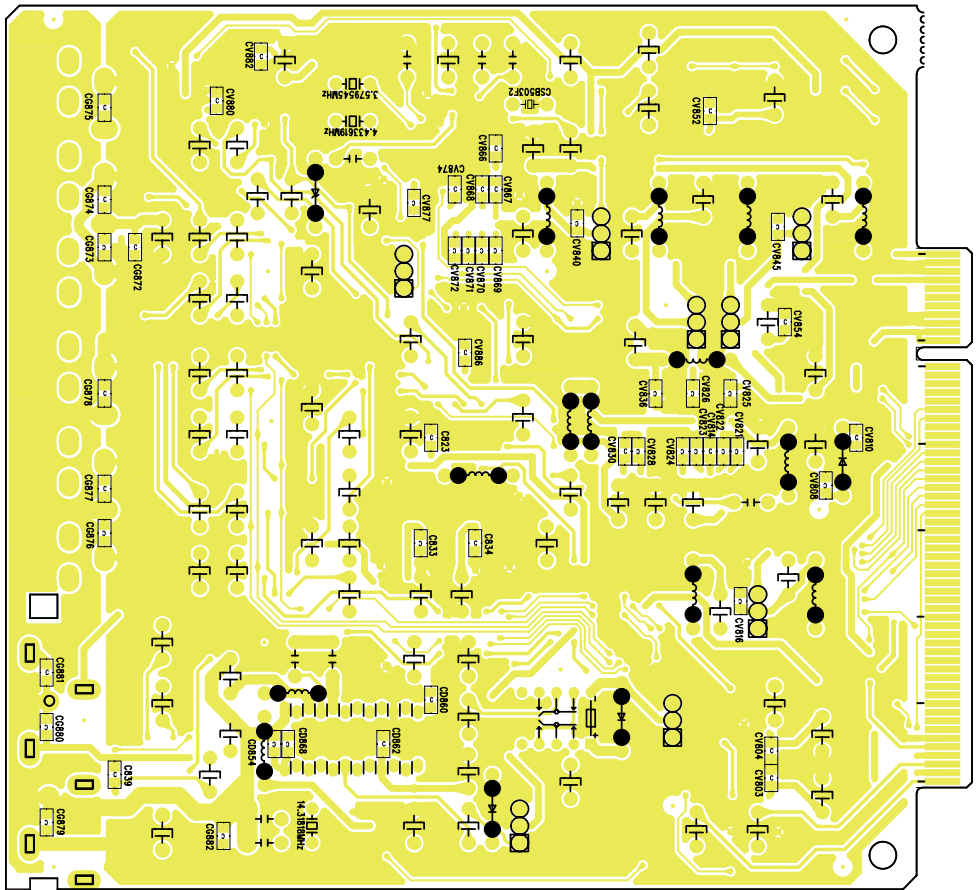


DAC PCB 016 E-1374B00

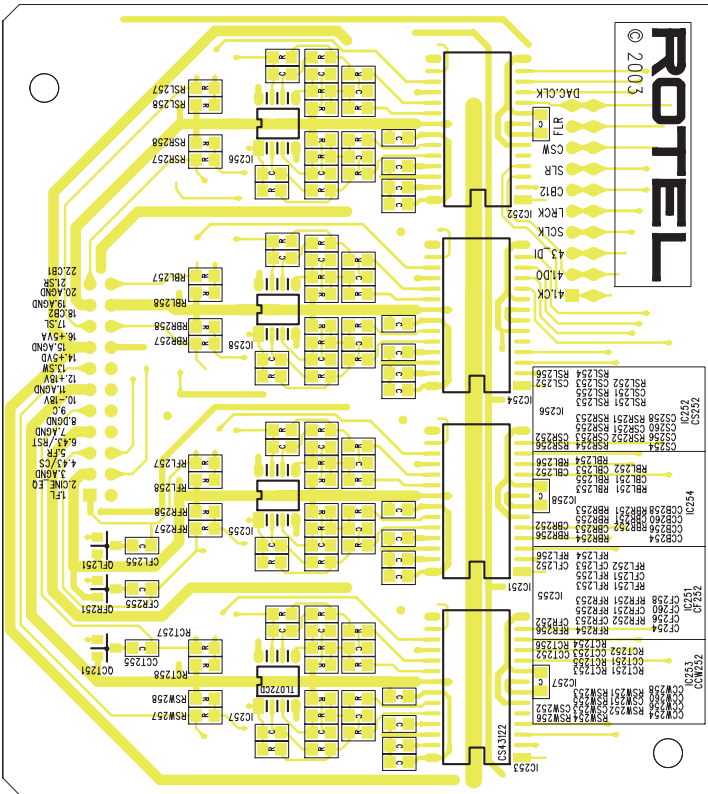
Top View



Bottom View

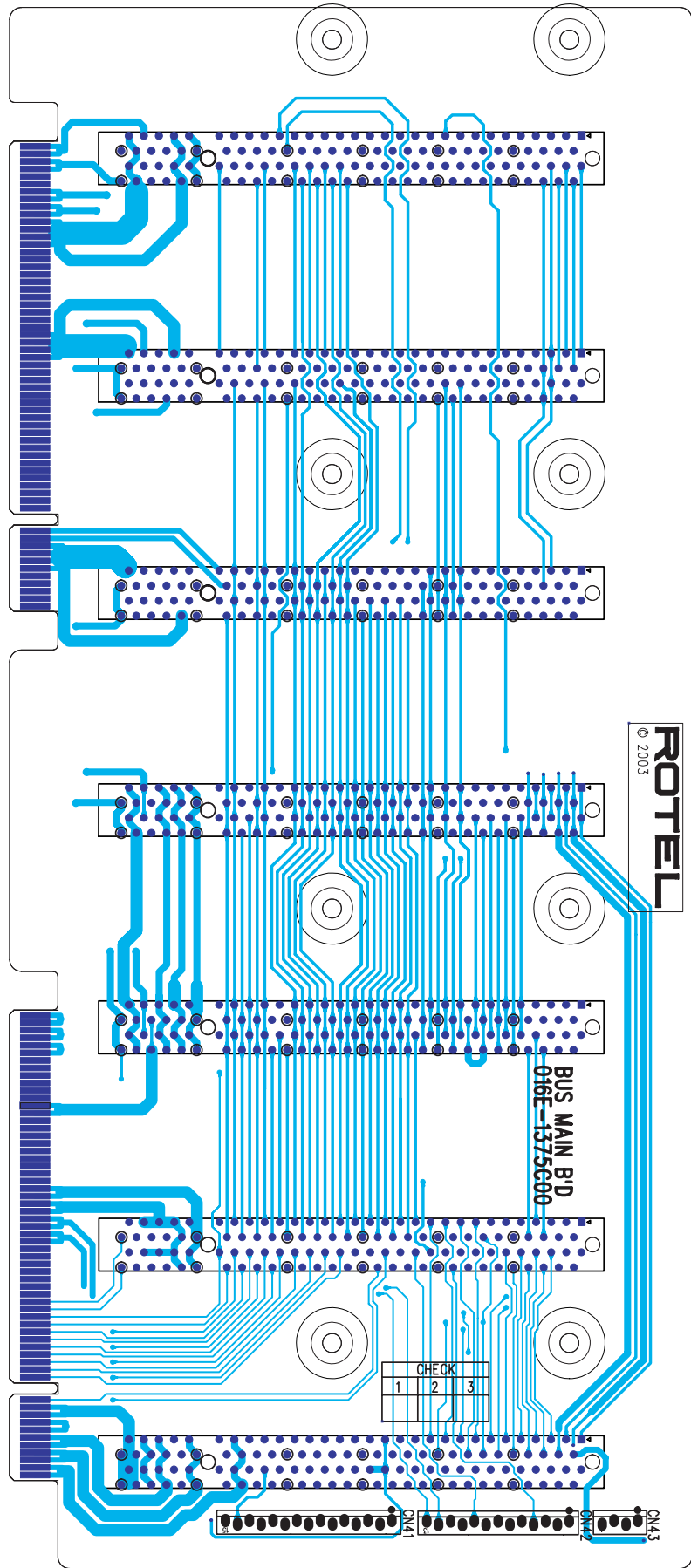


Bottom View

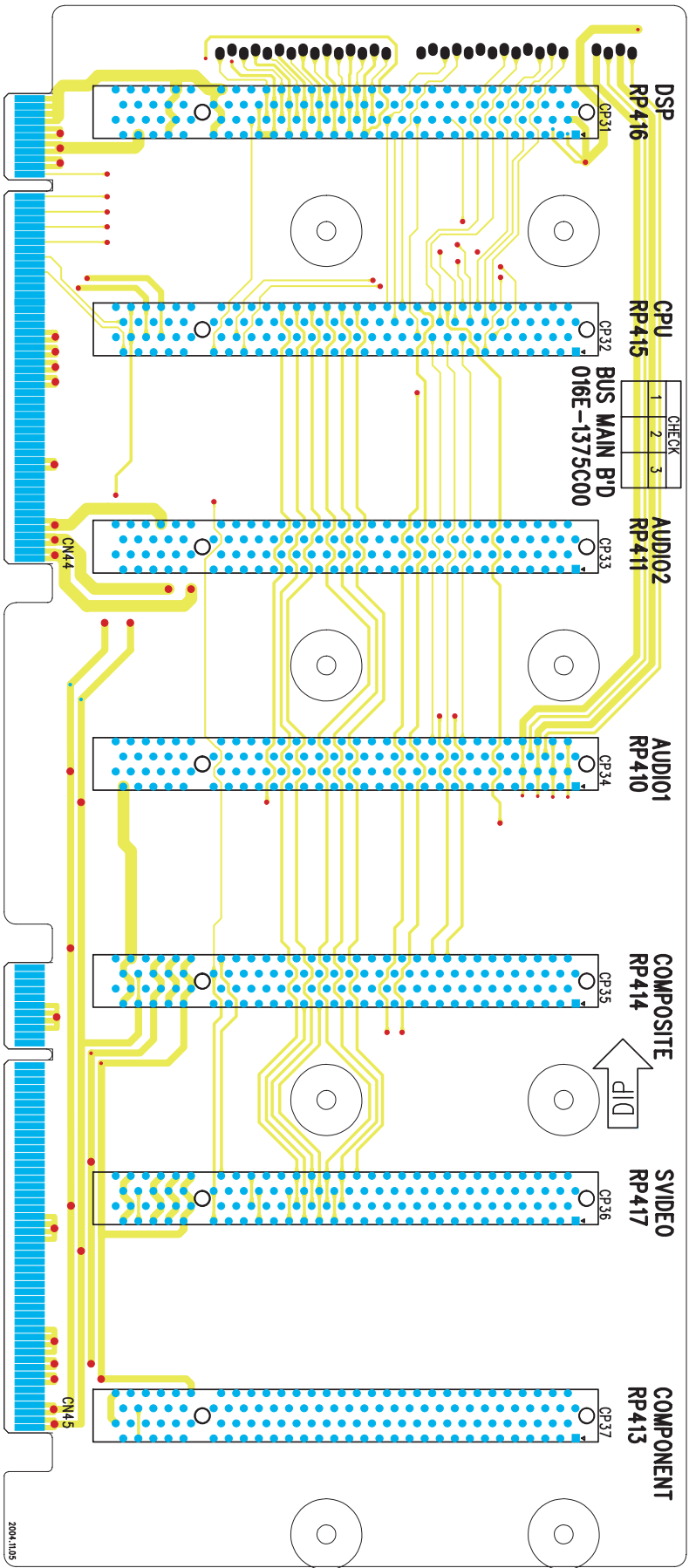


BUS PCB 016 E-1375C00

Parts Mount side

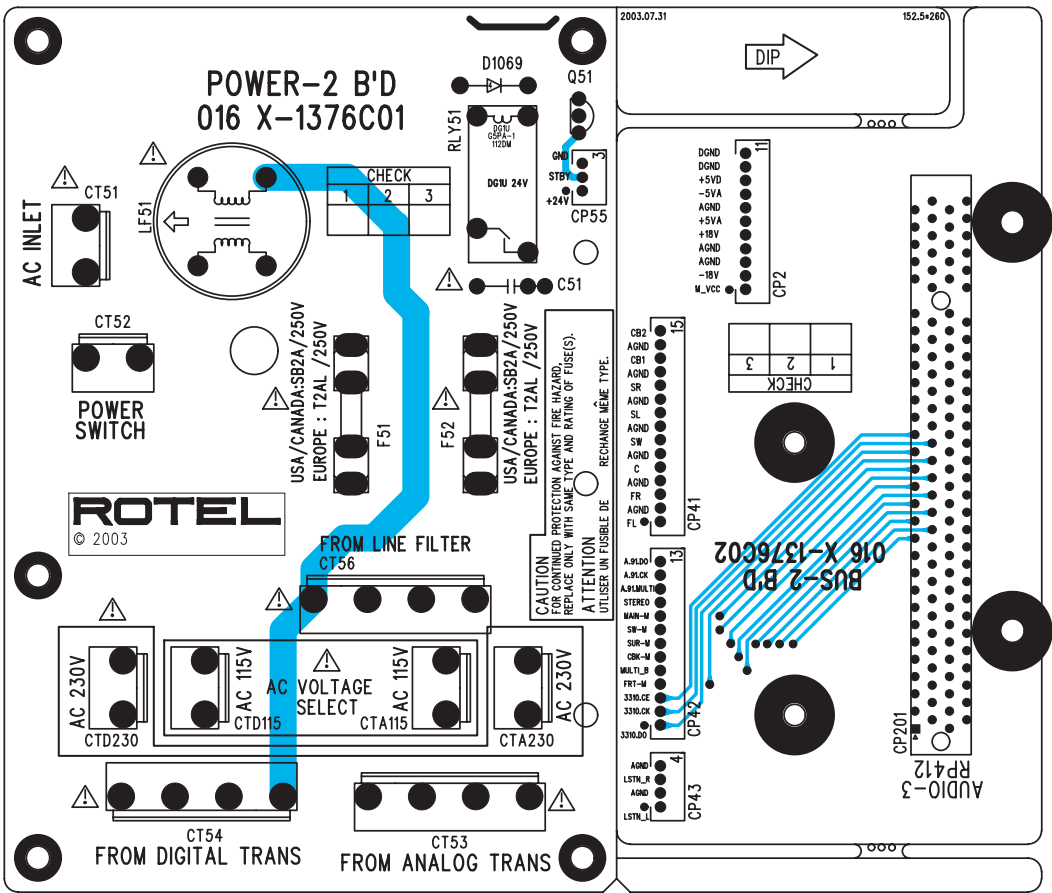


Pattern side

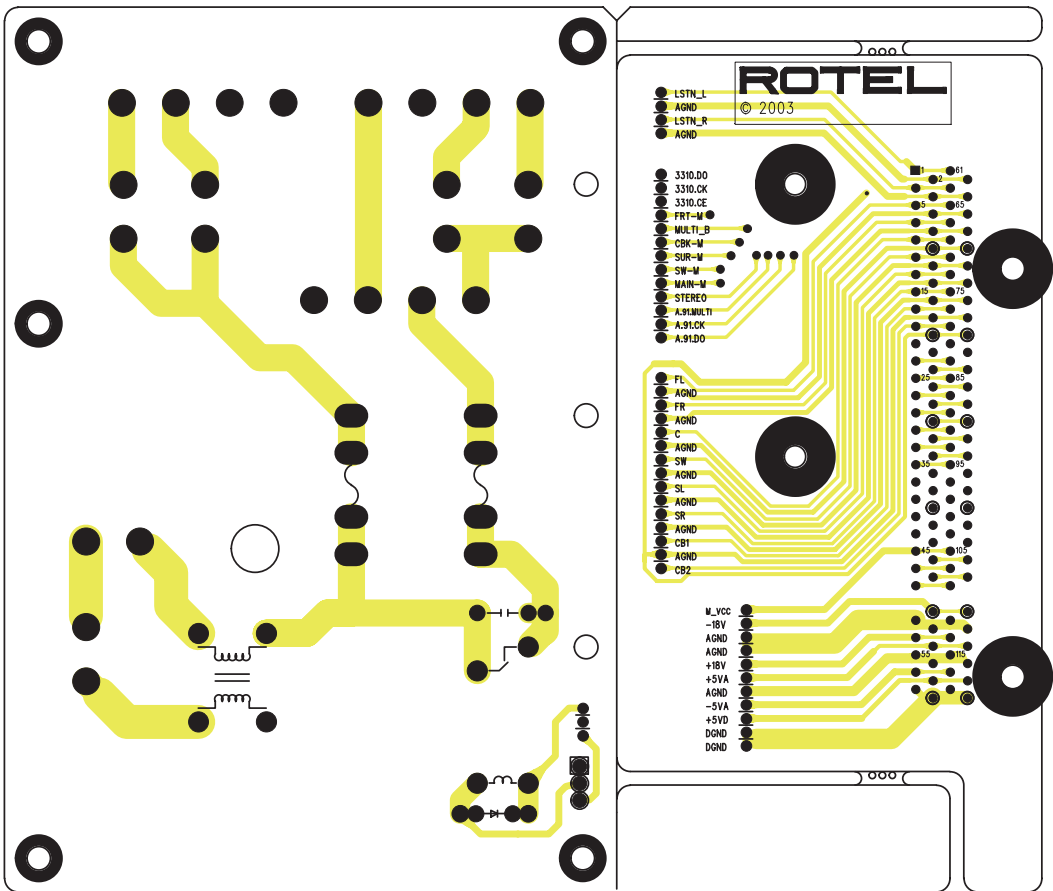


Power2, BUS2 PCB 016 X-1376C00

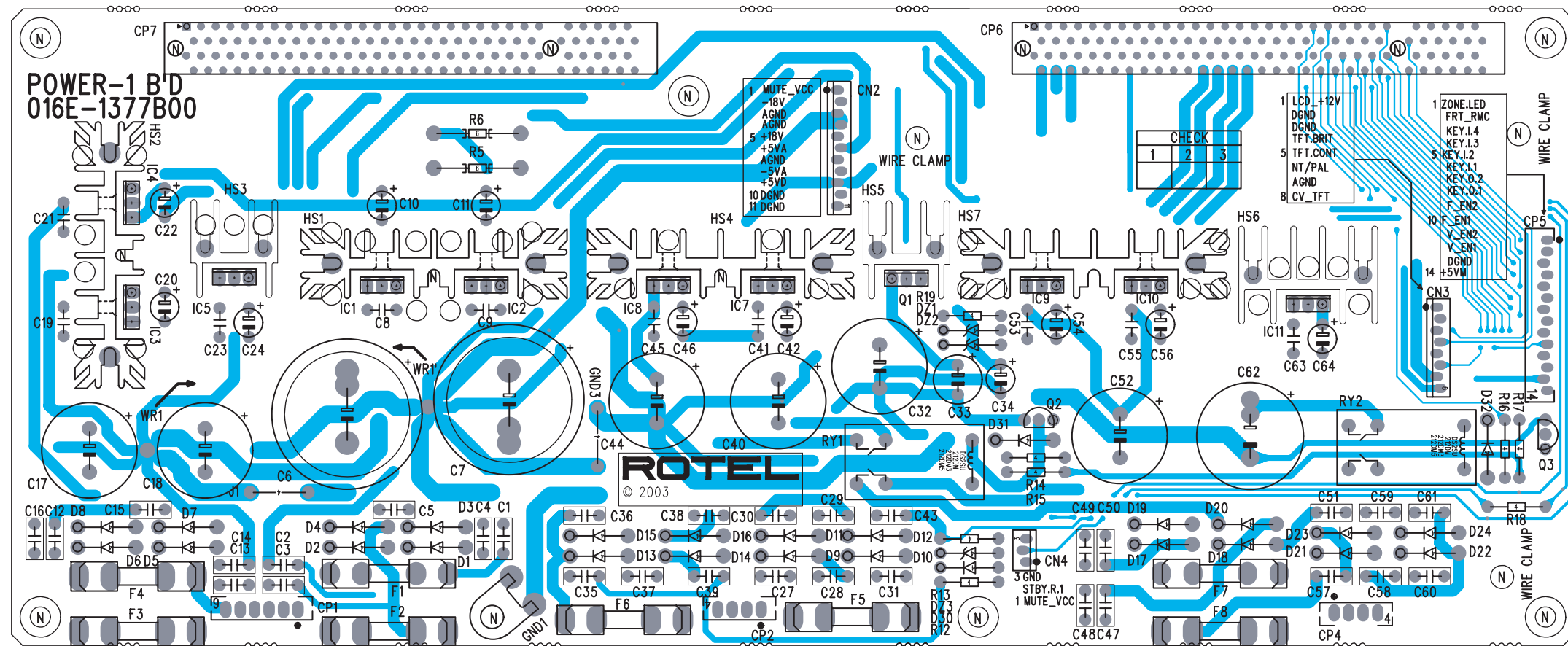
Top View



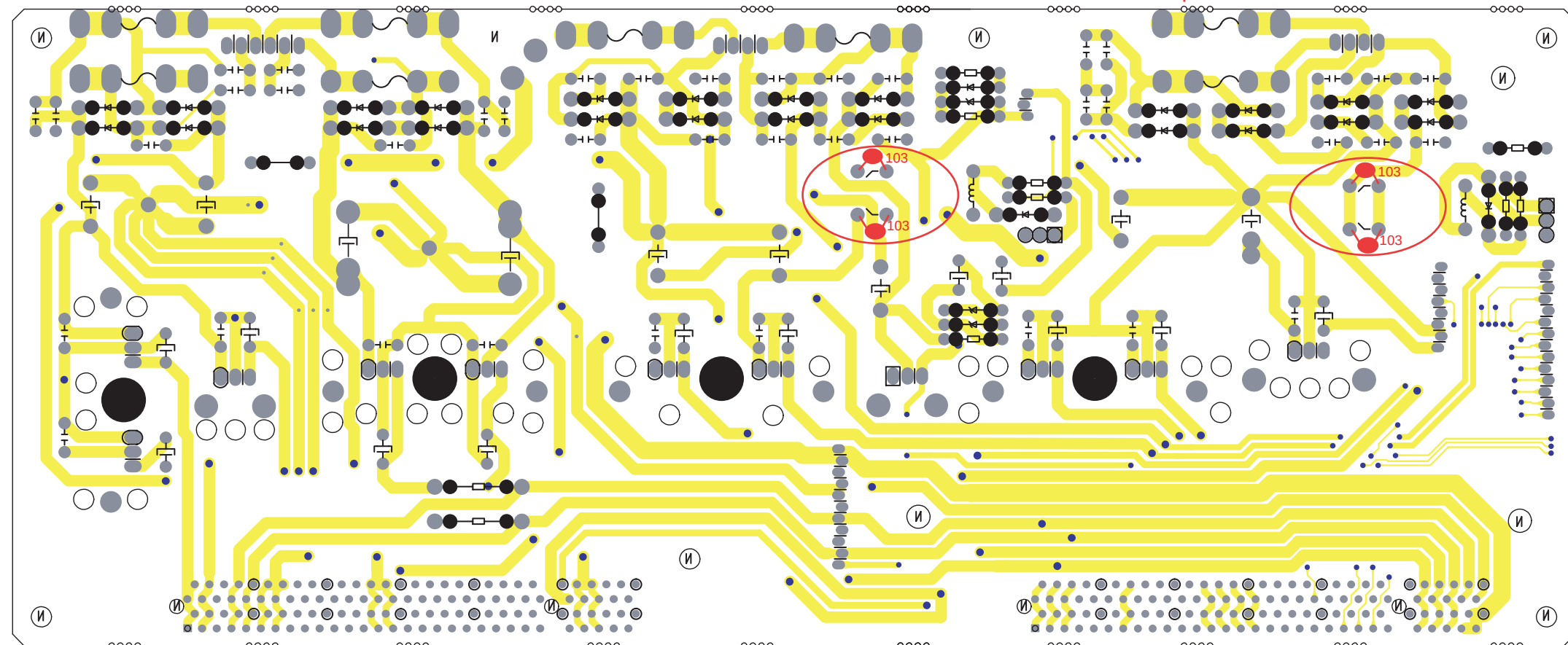
Bottom View



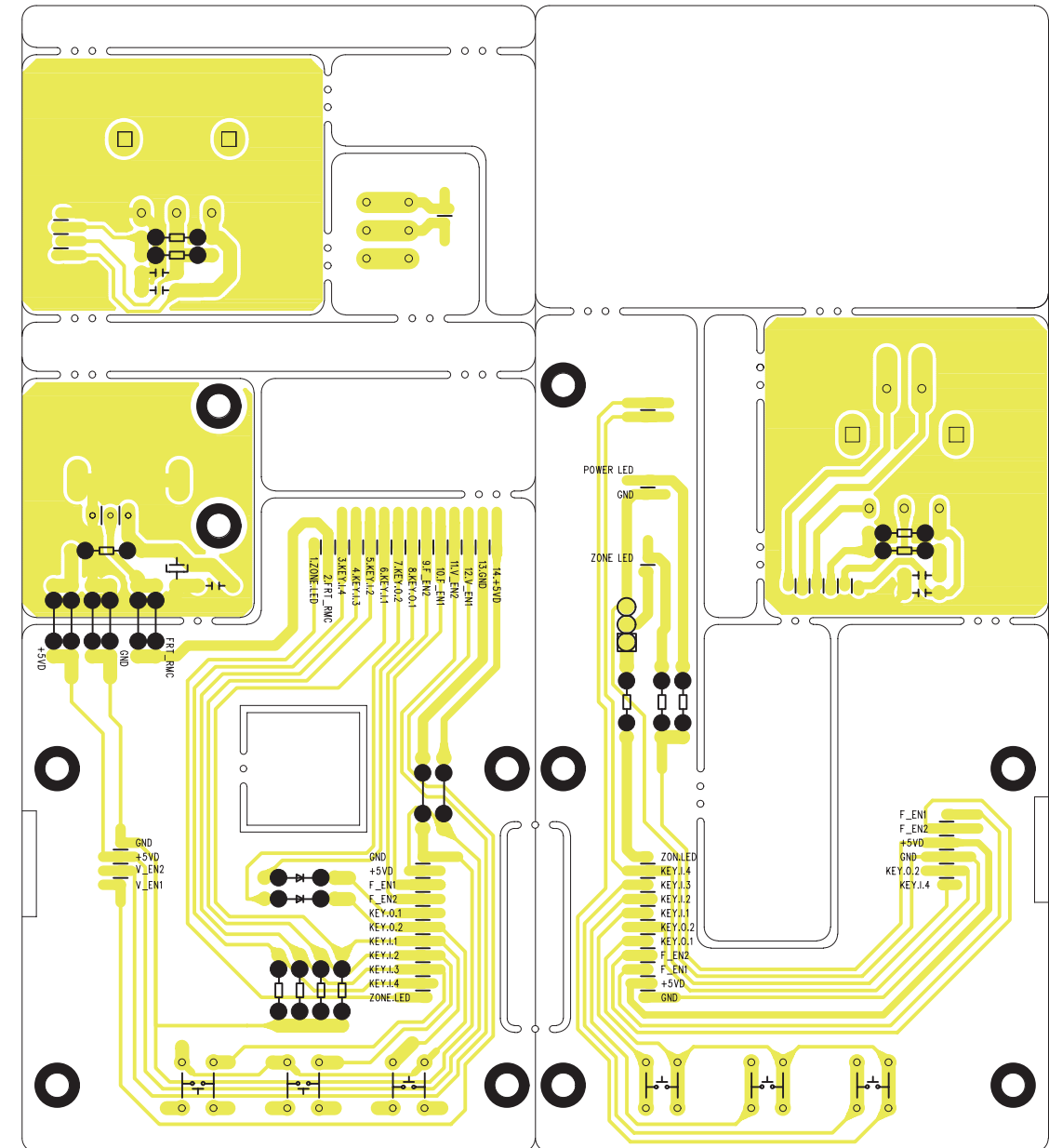
Top View



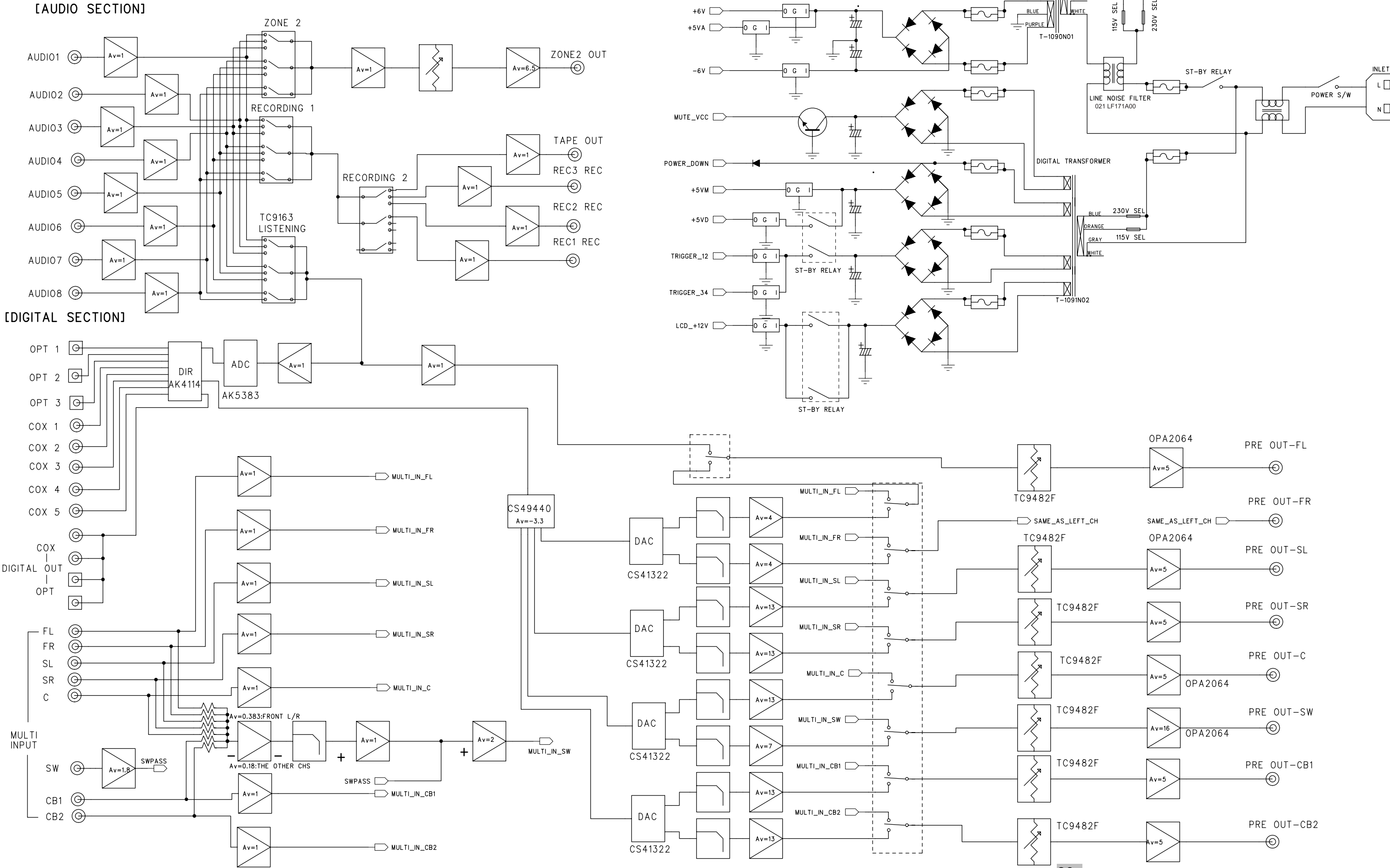
Add Ceramic Cap 4 x 043 C500V103



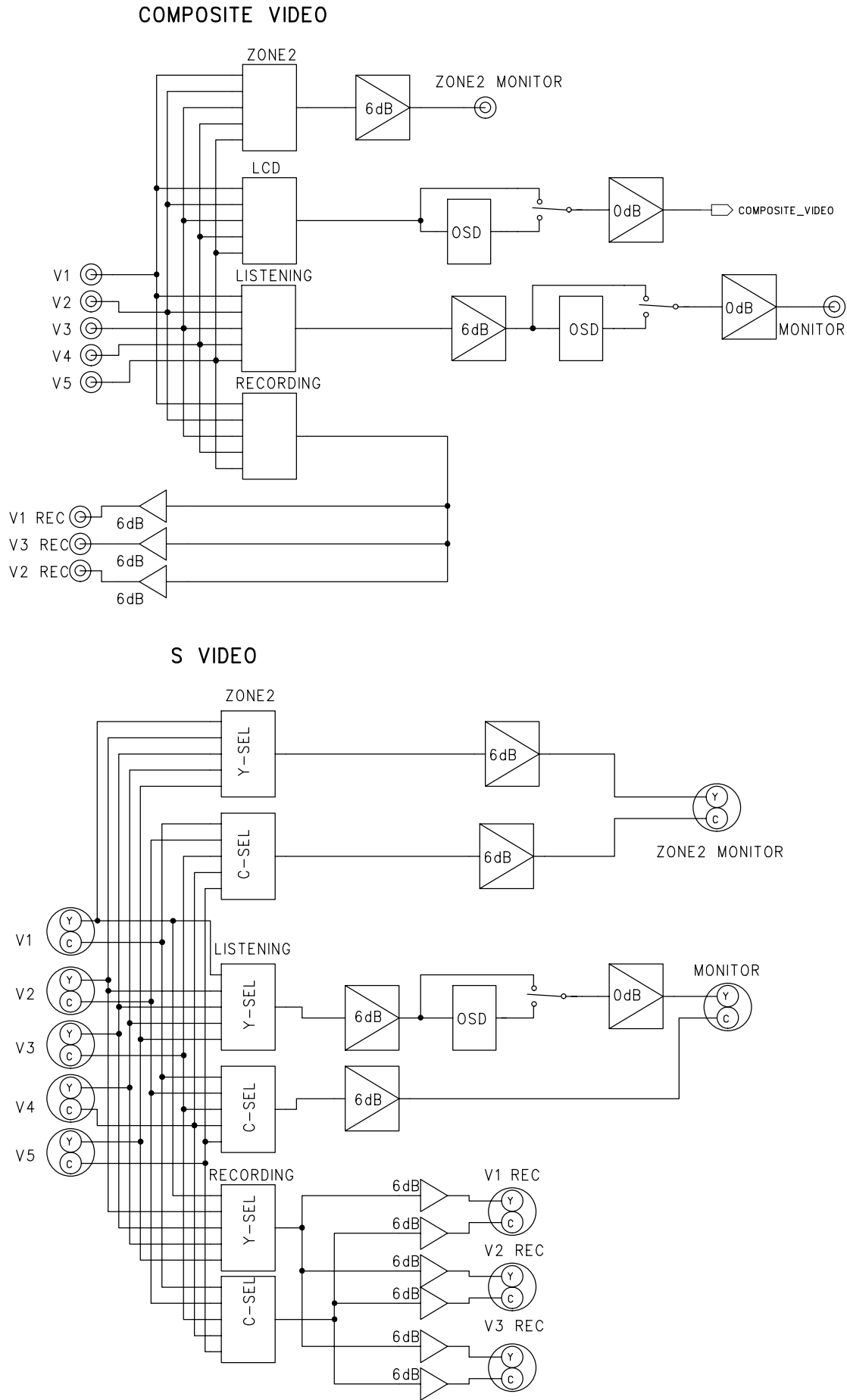
Top View



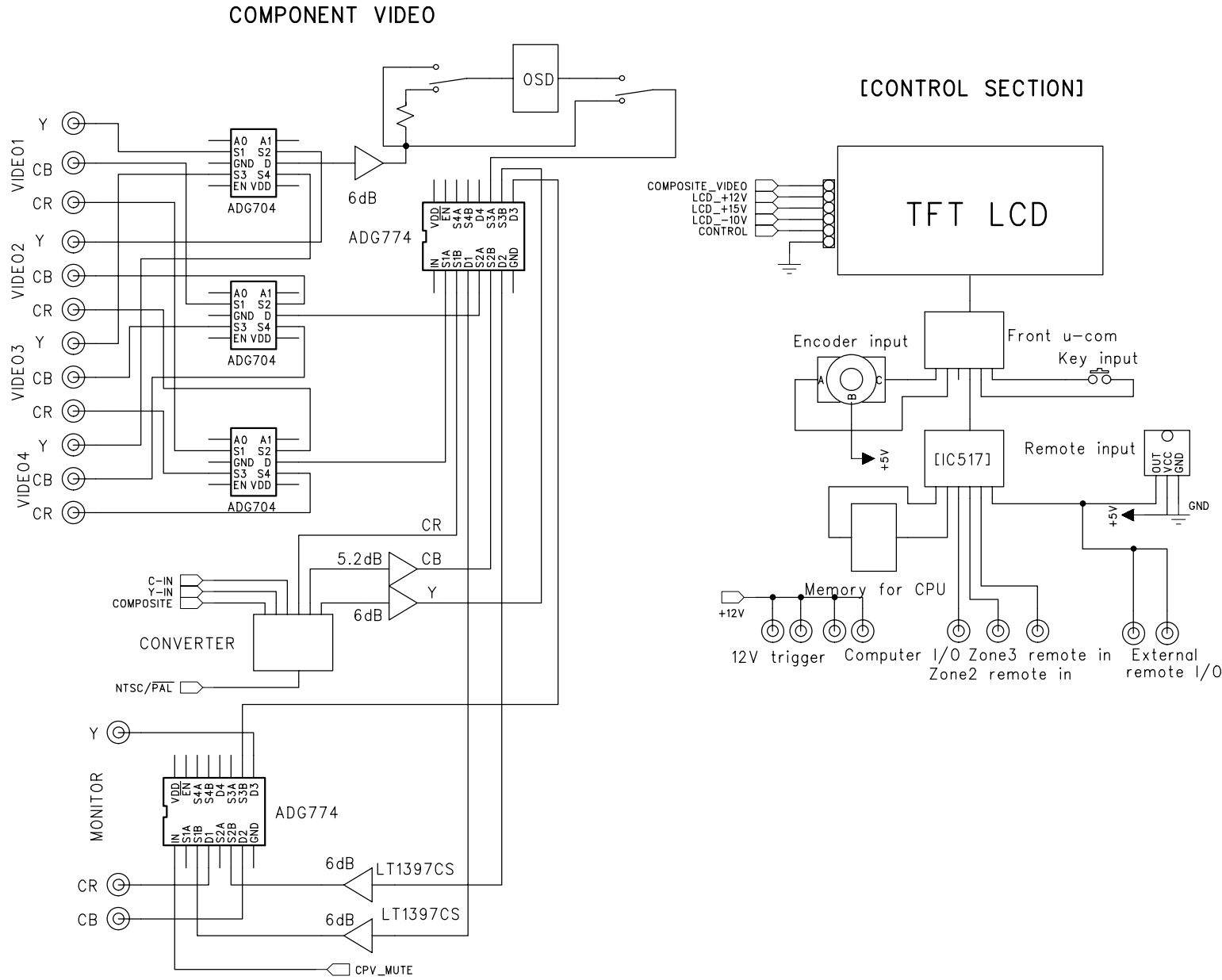
Block Diagram (1/2)

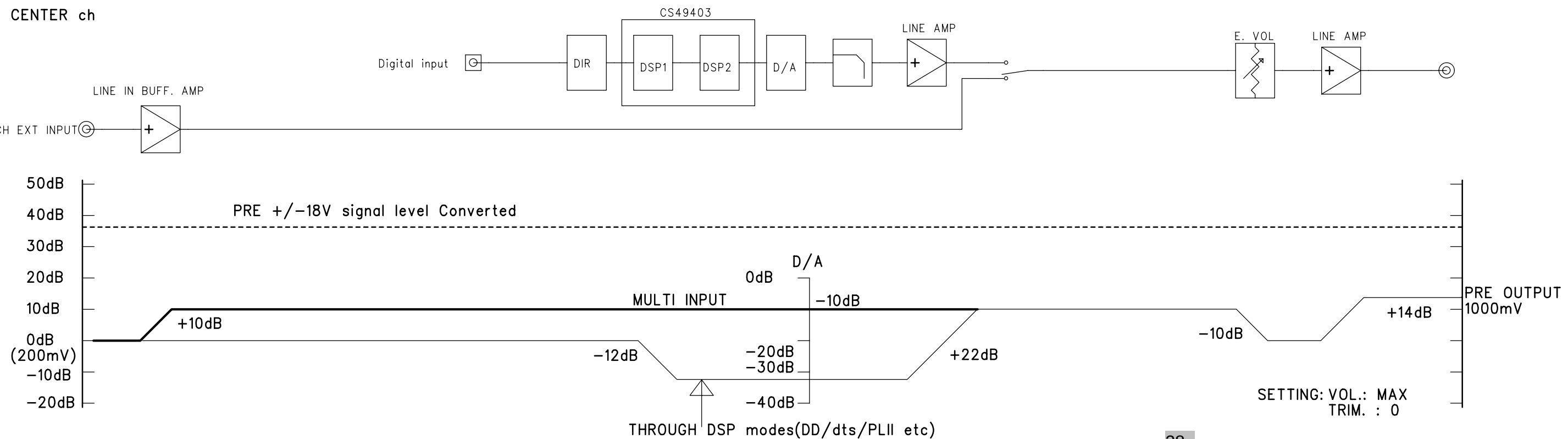


Block Diagram (2/2)

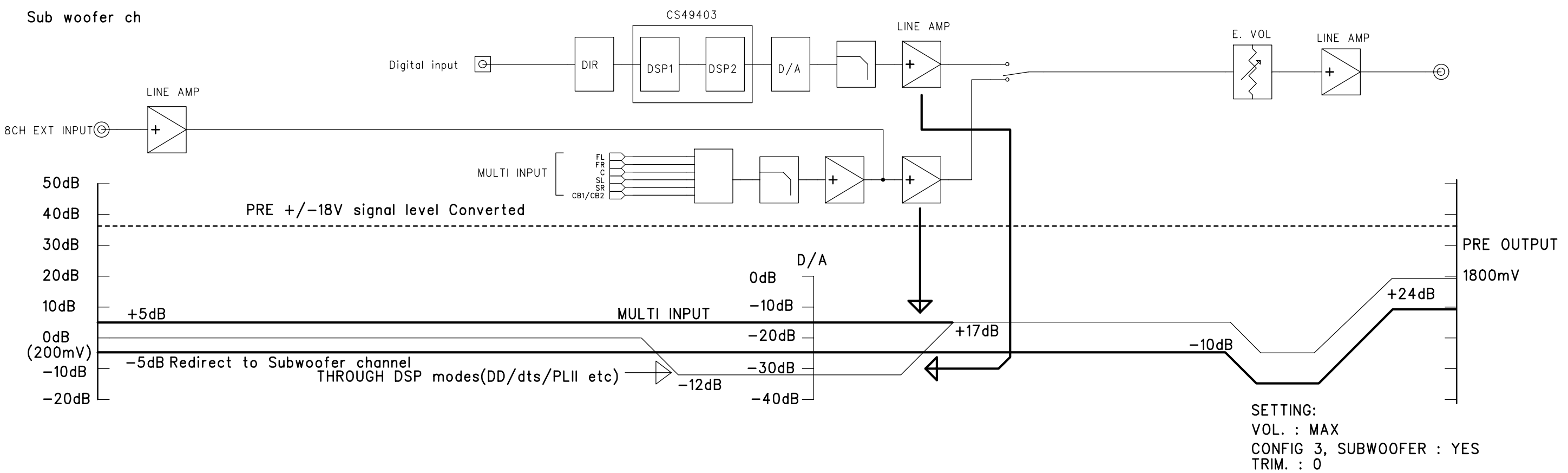
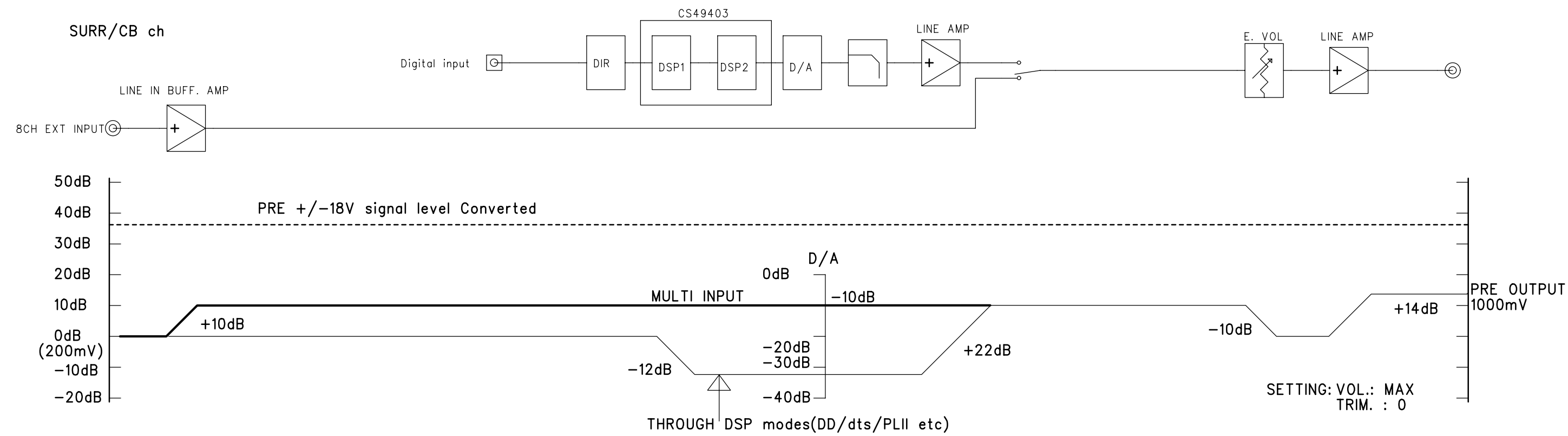


[VIDEO SECTION]



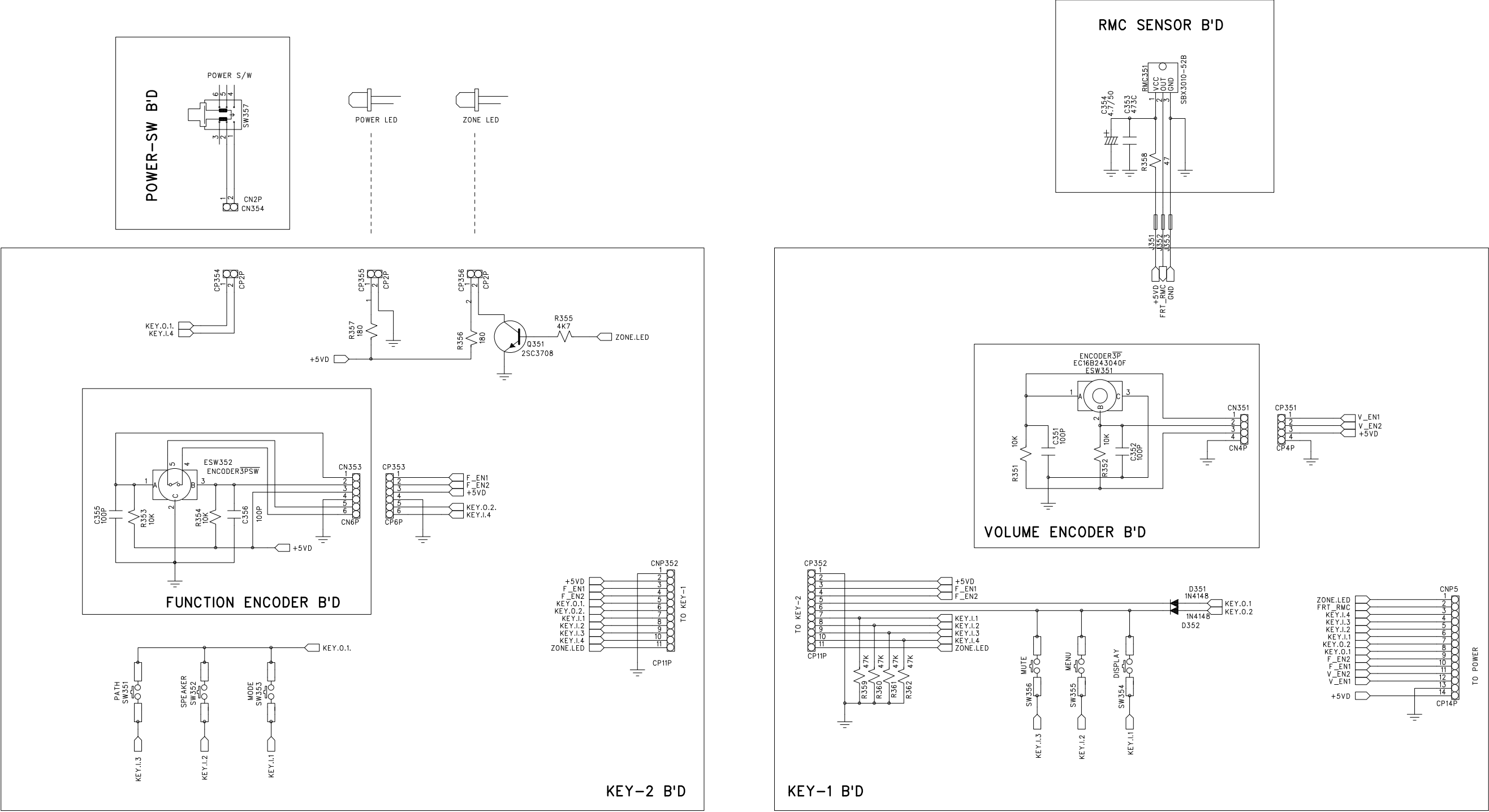


Level Diagram (2/2)



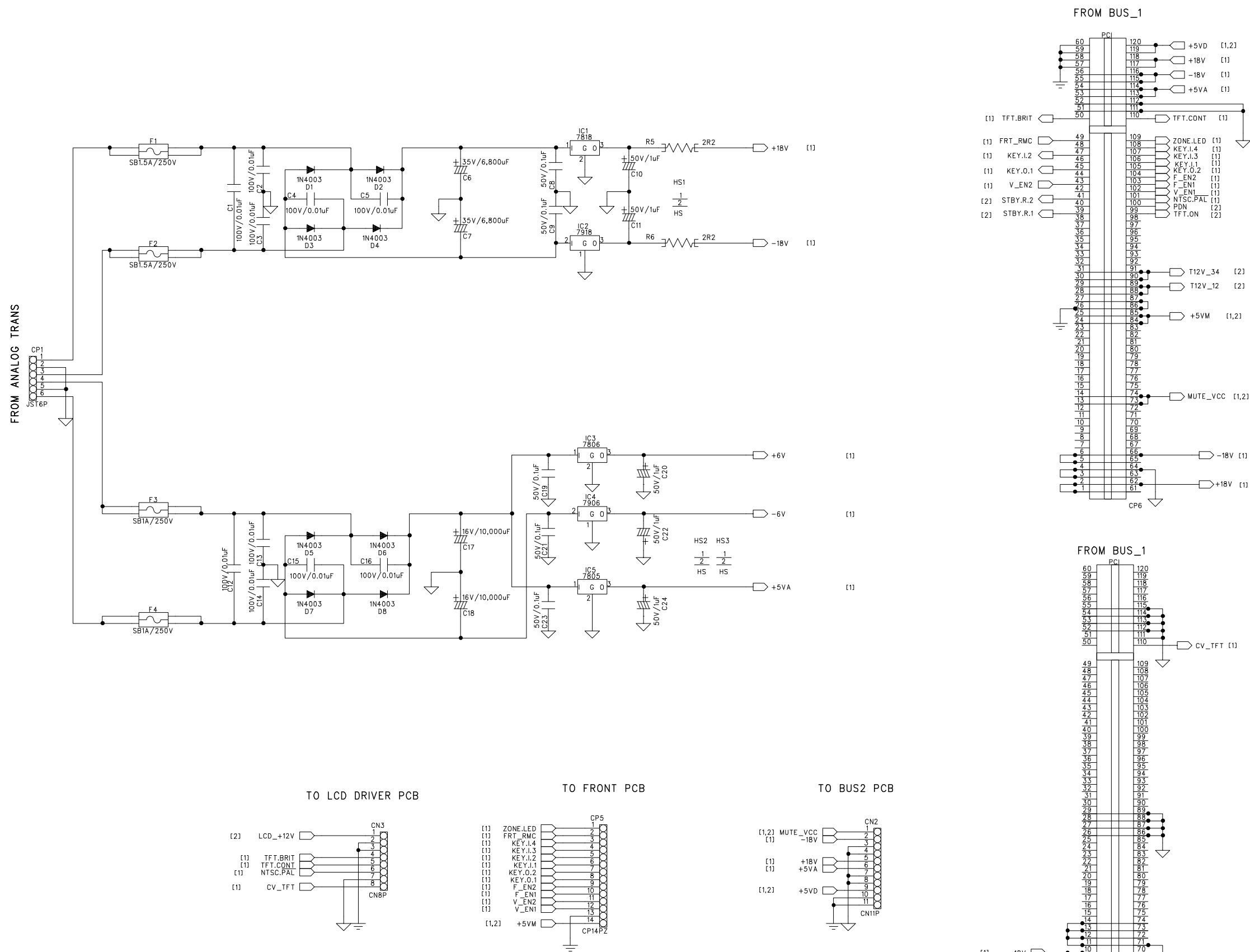
Schematic Diagram (1/18)

Front PCB 016 X-1378A01 - 05

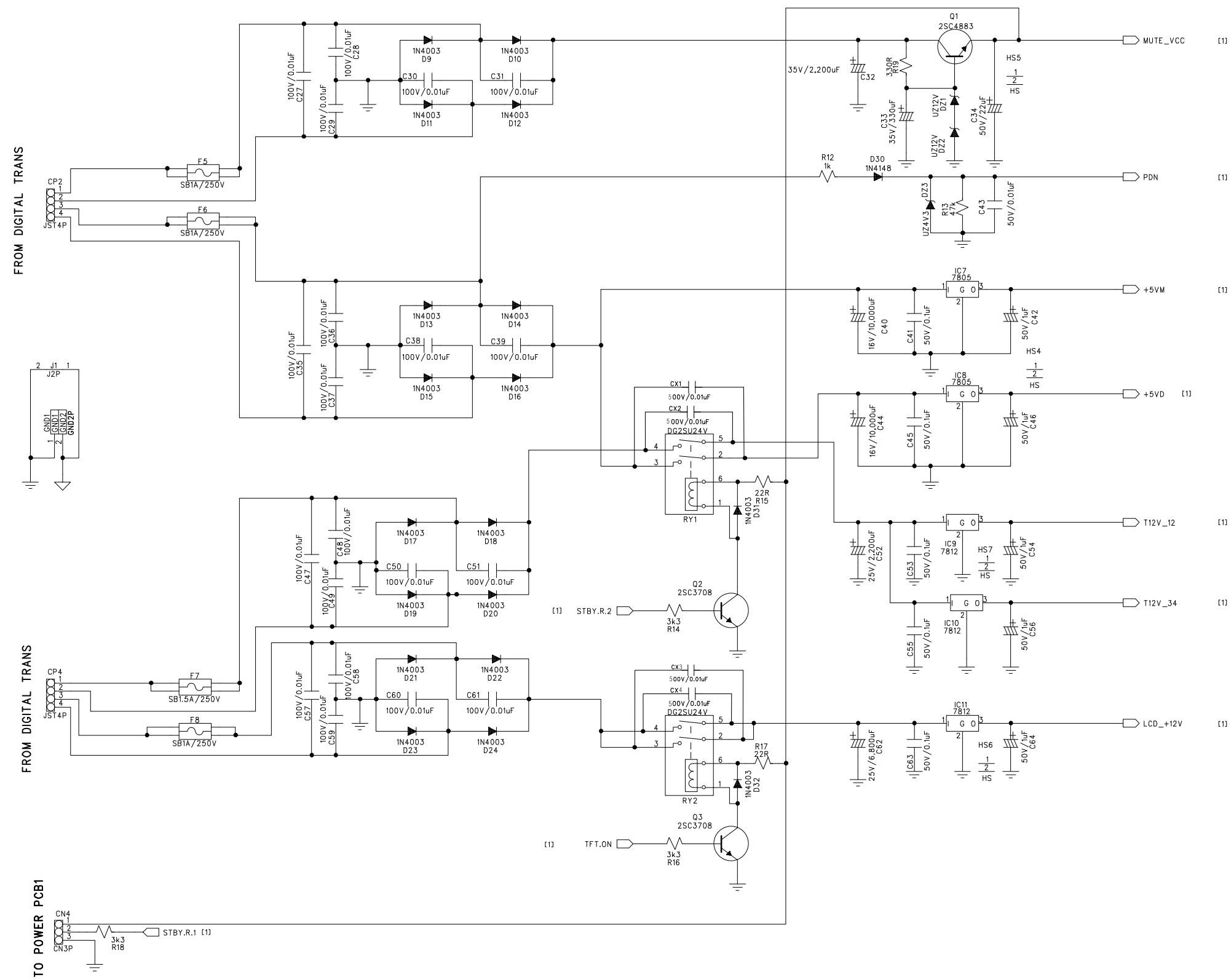


Schematic Diagram (2/18)

Power -1 PCB (1/2) 016E-1377B00

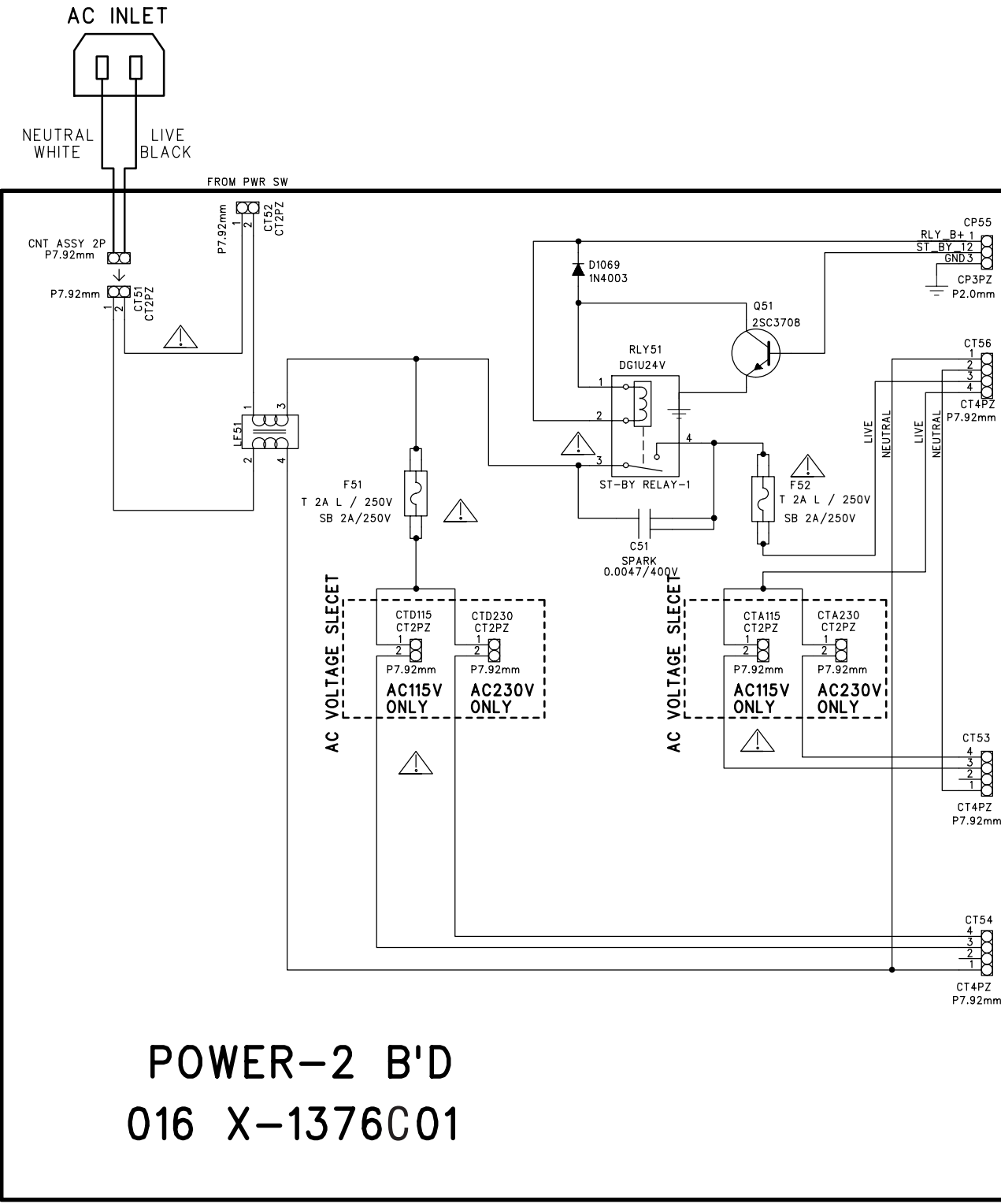


Power -1 PCB (2/2) 016 E-1377B00

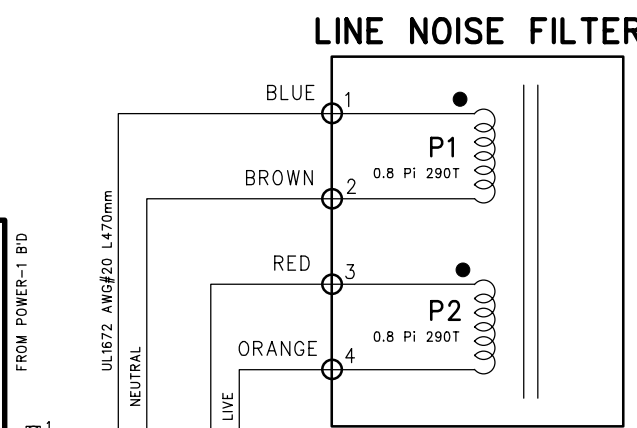


Schematic Diagram (4/18)

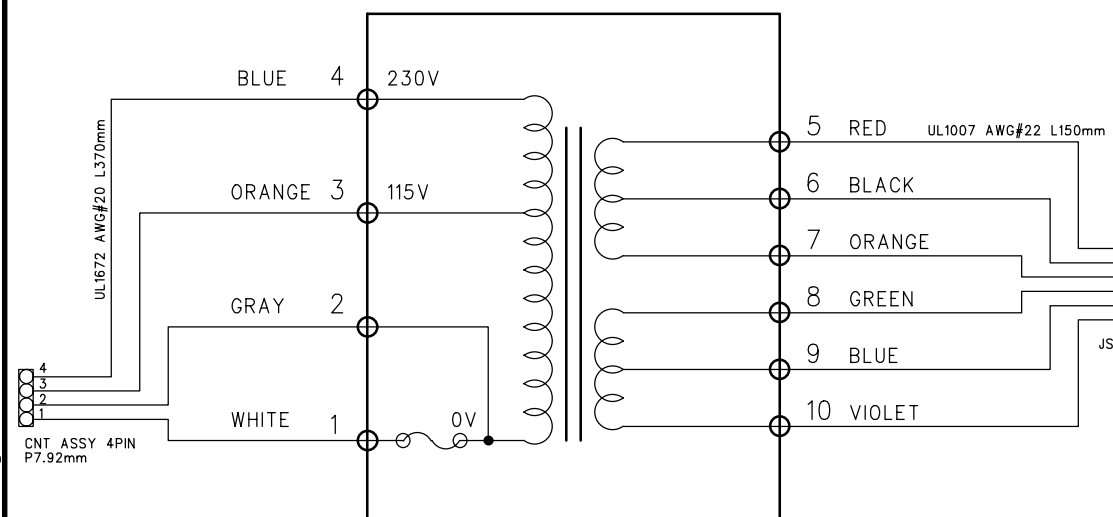
Power2, BUS2 PCB 016 X-1376C01-02



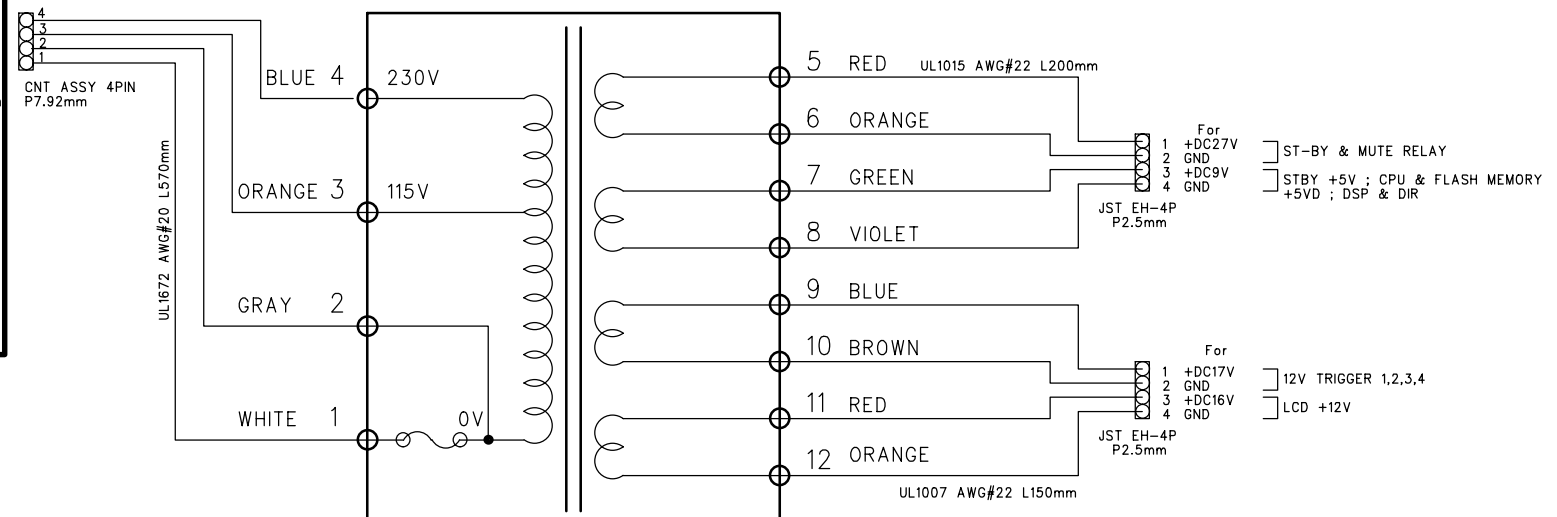
POWER-2 B'D
016 X-1376C01



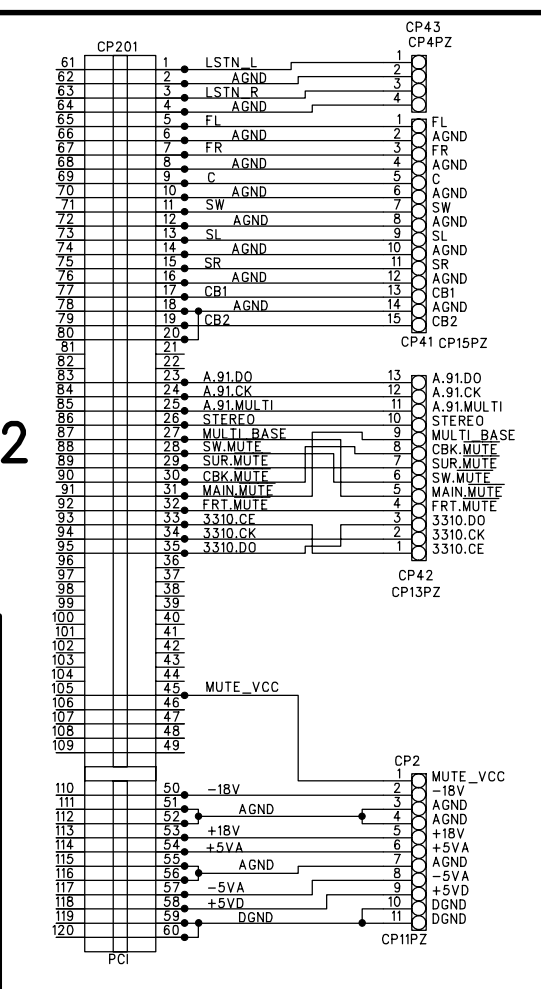
ANALOG TRANSFORMER
022 T-1090N03



DIGITAL TRANSFORMER
022 T-1091N05

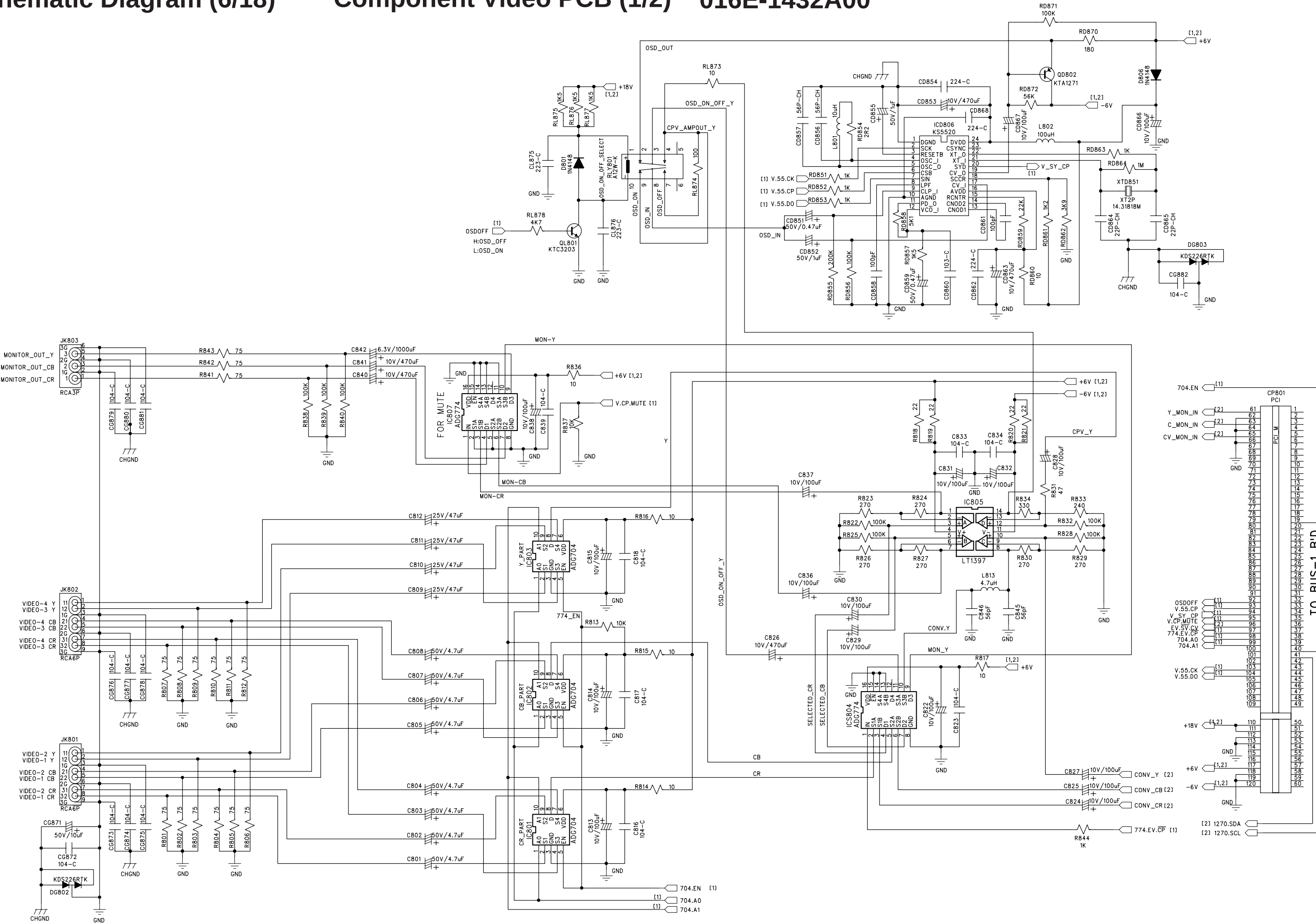


BUS-2 B'D
016 X-1376C02

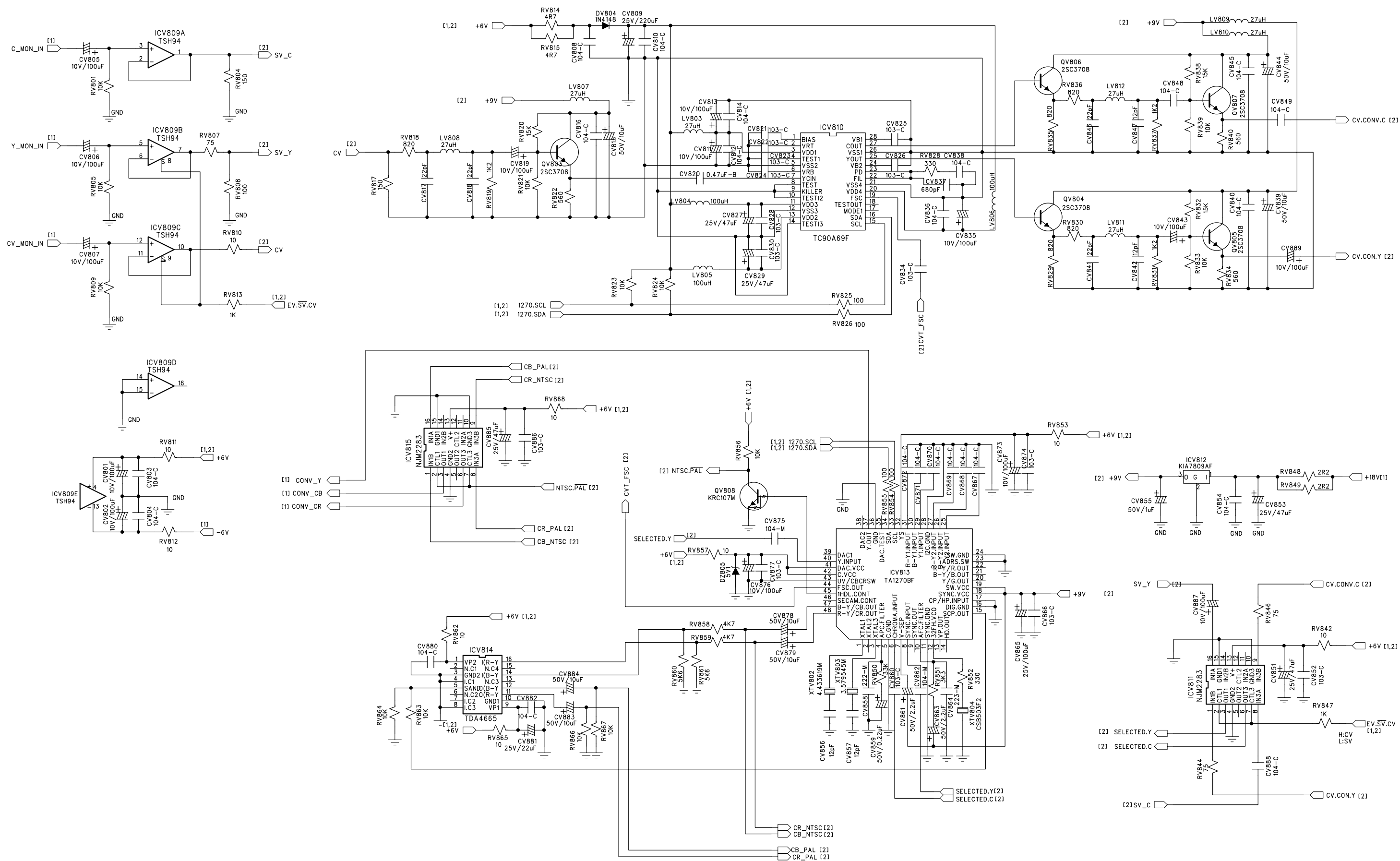


016 E-1375C00	
DATE	ECO NO
2004.11.05	
ADD CP37#40~CP32#81 (1270_SCL)	
ADD CP37#41~CP32#82 (1270_SDA)	

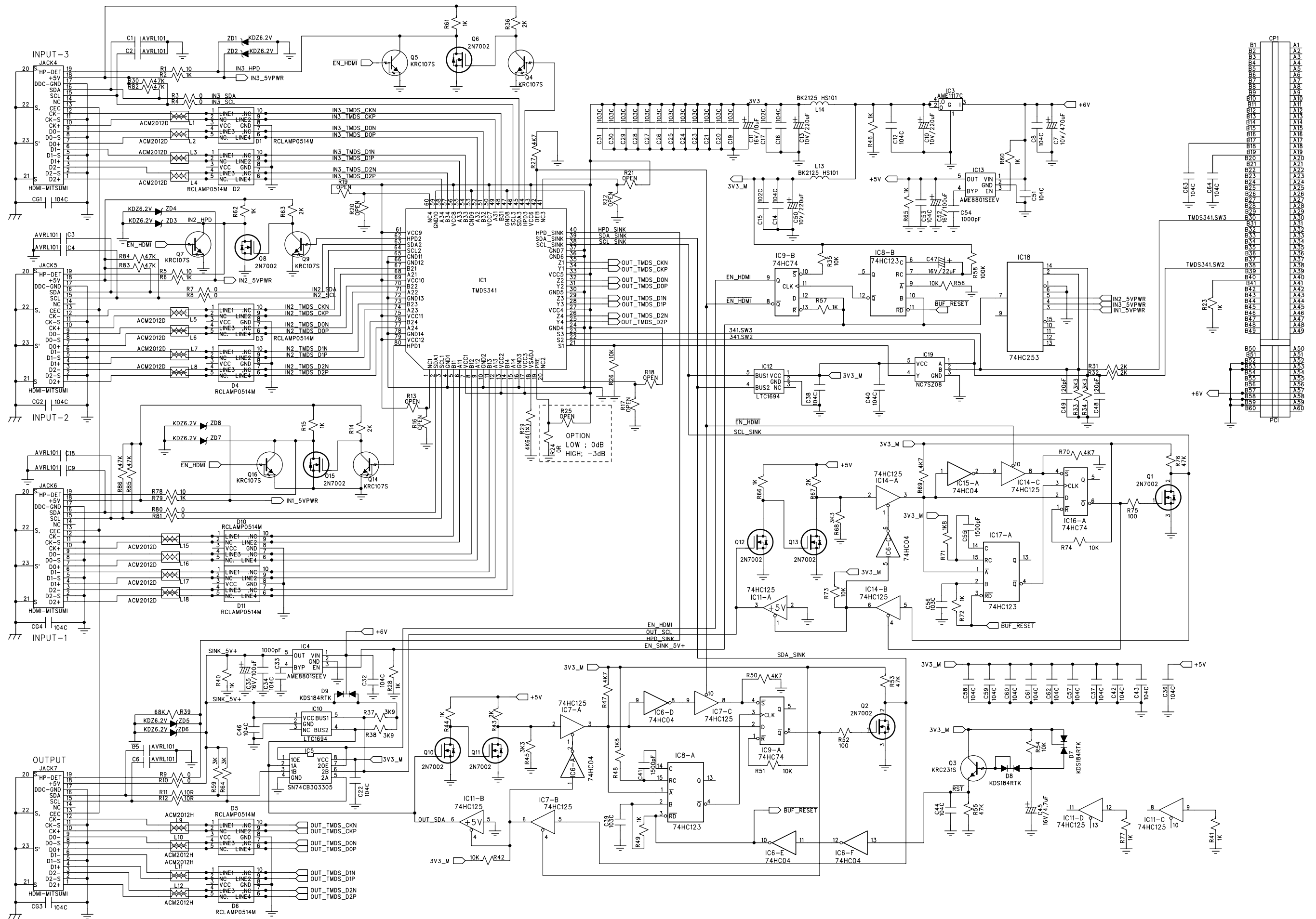




Component Video PCB (2/2) 016E-1432A00
Video Upconvert part (Composite/S-Video to Component)



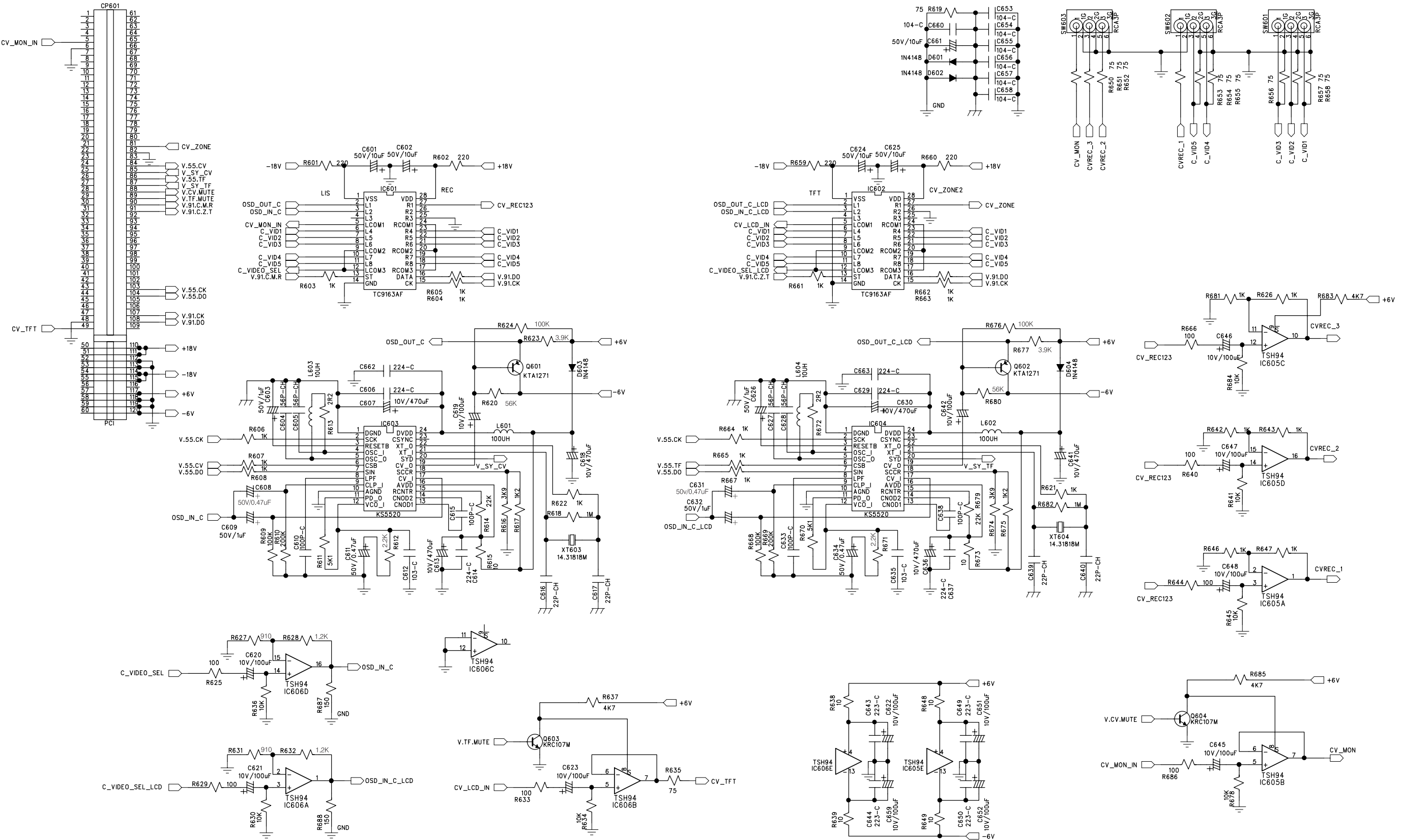
HDMI PCB 016 E-1513A00



Composite and LCD Video PCB 016 E-1372B00

016E-1372B00

* REVISED	
DATE	ECO NO.
2003.10.27	ECO #0099
2003.10.31	ECO #0101



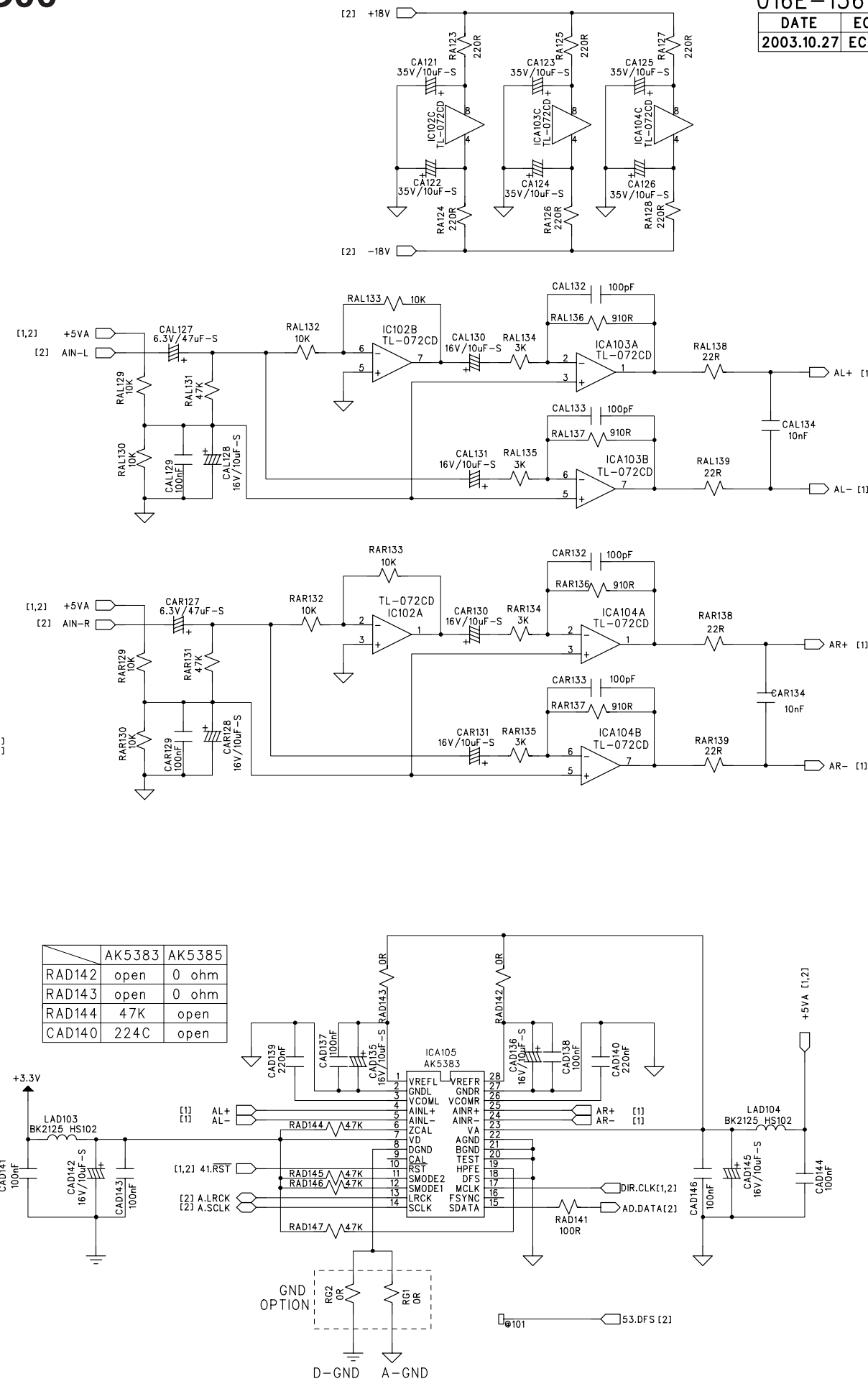
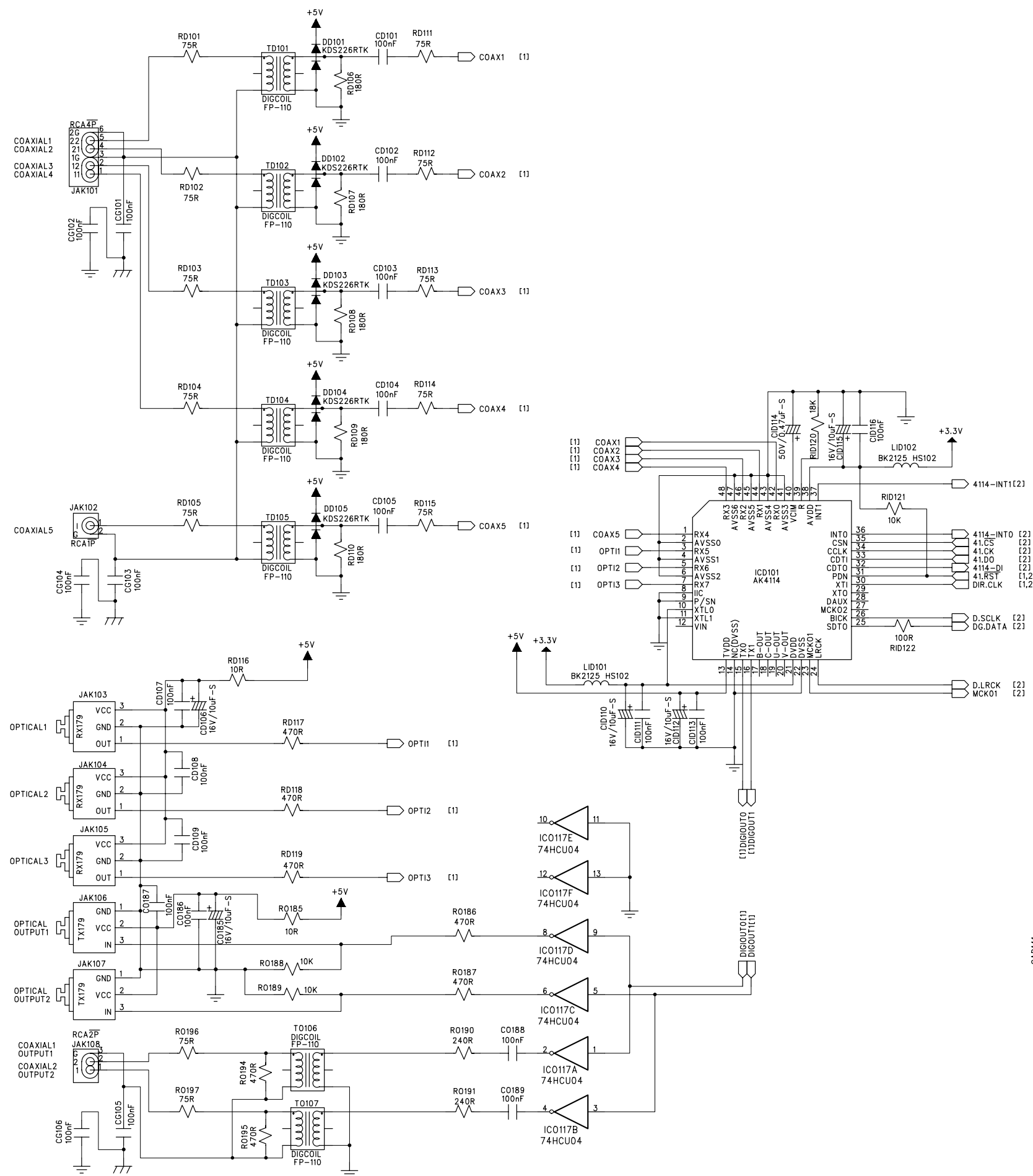


Schematic Diagram (11/18)

DSP PCB (1/2) 016 E-1367C00

016E-1367C00

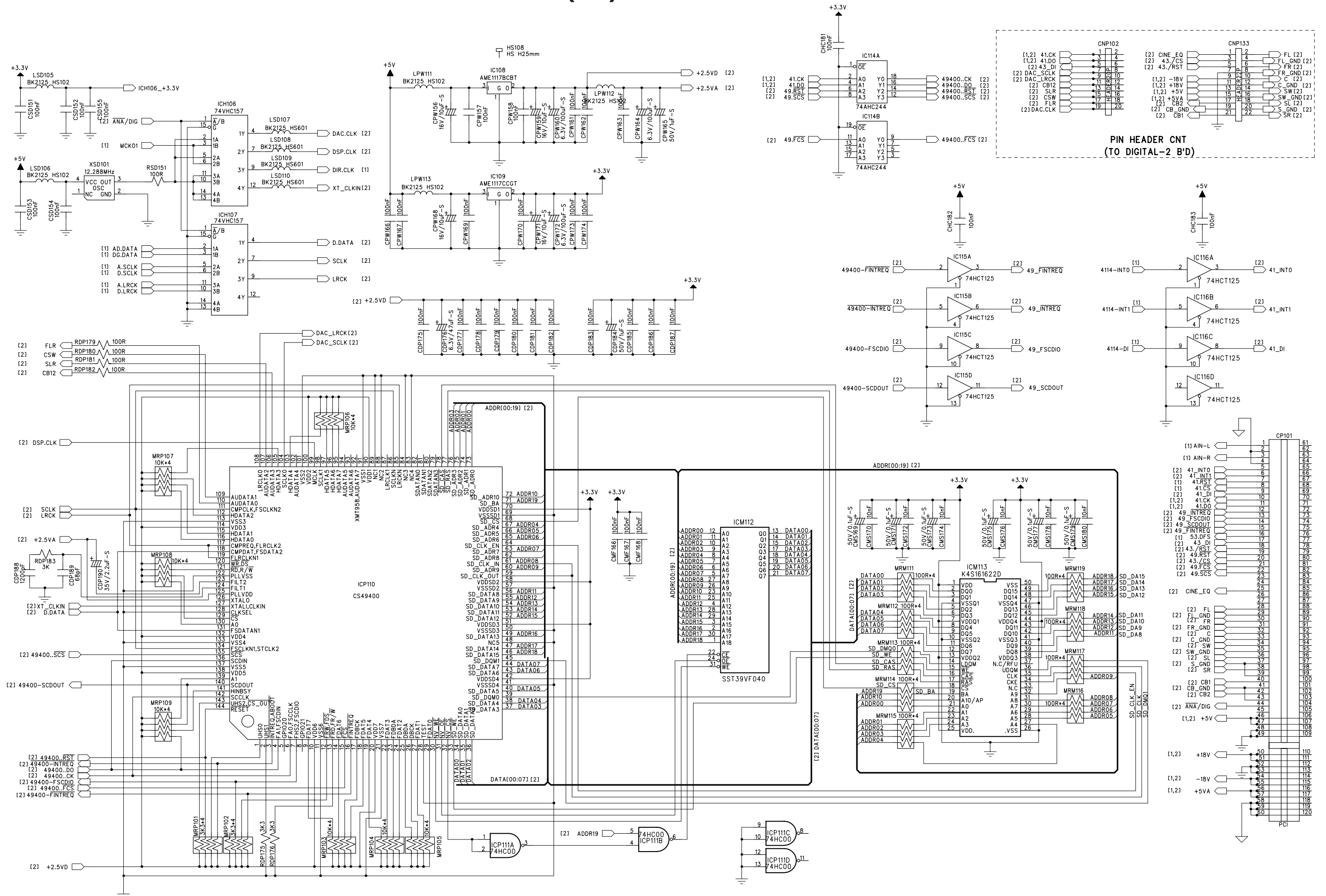
DATE	ECO NO.
2003.10.27	ECO #099



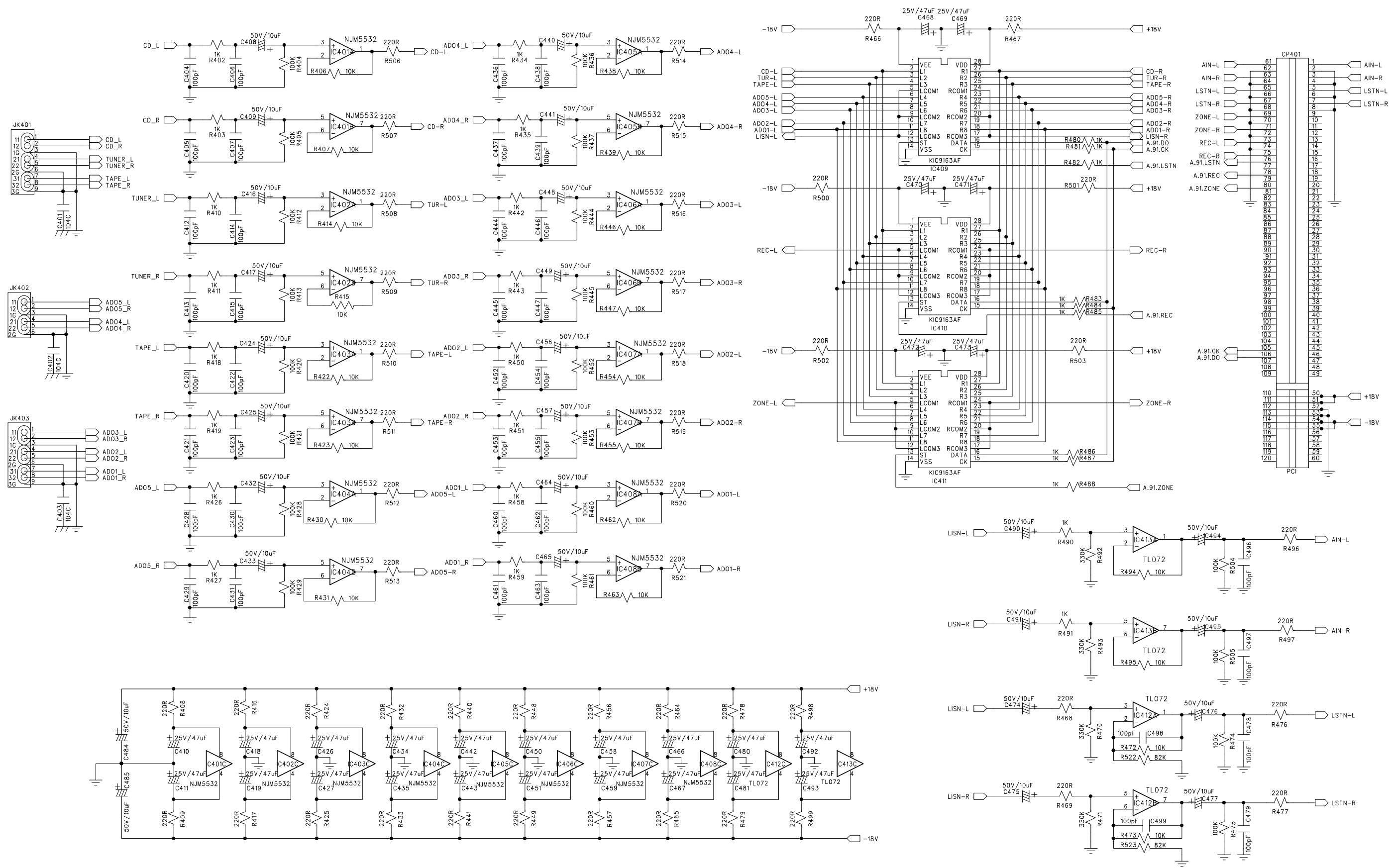
	AK5383	AK5385
RAD142	open	0 ohm
RAD143	open	0 ohm
RAD144	47K	open
CAD140	224C	open

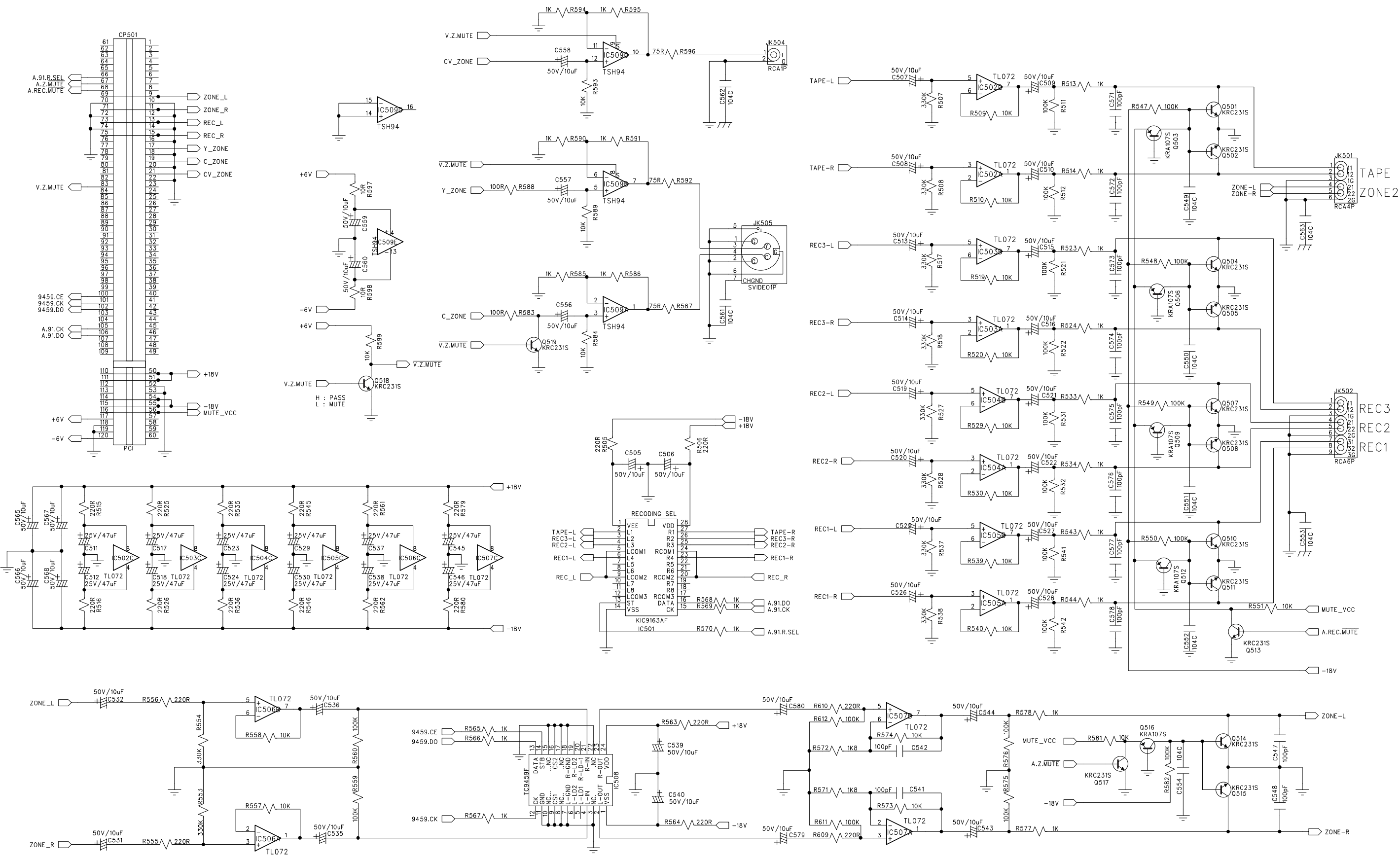
Schematic Diagram (12/18)

DSP PCB (2/2) 016 E-1367C00



DAC B'D
016 E-1374B00





Audio 3 (1/3) PCB 016E-1366B00

