

Quality Uncompromised

ROTEL®

Technical Manual

SURROUND SOUND RECEIVER RSX-1065 V02

Table of Contents

Specification.....	1	Disassembly Diagram and List.....	16~17
Parts List.....	2~12	Wiring.....	18
Adjustment.....	13~14	PCB Assembly.....	19~27
Upgrade Procedure	15	Schematic Diagram	28~41

Specifications

Audio

Continuous Amplifier Power (five channels driven)

100 watts/ch (20-20k Hz, <0.05% THD, 8 ohms)

Continuous Amplifier Power (two channels driven)

120 watts/ch (1kHz, <1.0% THD, 8 ohms, DIN)

Total Harmonic Distortion

<0.05%

Intermodulation Distortion (60 Hz:7 kHz)

<0.05%

Frequency Response

10 Hz - 95 kHz, ± 1 dB (line level)

10 Hz - 20 kHz, ± 0.3 dB (digital level)

Signal to Noise Ratio (IHF A-weighted)

95 dB (Stereo) Analog

92 dB (Dolby Digital, dts) 0dBFS

Input Sensitivity/Impedance

Line Level: 200 mV/47 kohms

Tone Controls (Bass/Treble)

± 8 dB at 100 Hz/10 kHz

Preamp Output Level

1.2 V (200 mV Input)

Video

Frequency Response

3 Hz - 10 MHz, ± 3 dB

Signal to Noise Ratio

45 dB

Input Impedance

75 ohms

Output Impedance

75 ohms

Output Level

1 volt

FM Tuner

Usable Sensitivity

14.2 dBf

Signal to Noise Ratio (at 65 dBf)

70 dBf

Harmonic Distortion (at 65 dBf)

0.03%

Stereo Separation (1 kHz)

45 dB

Output level

1 V

Antenna Input

75 ohms unbalanced

AM Tuner

Sensitivity

500 μ V/m

Signal to Noise Ratio

40 dBf

Output level

500 mV

Antenna Input

Loop Antenna

General

Power Consumption:

550 watts

Power Requirements (AC)

115 volts, 60Hz (USA version)

230 volts, 50Hz (CE version)

Weight

20.4 Kg/44.9 lb.

Dimensions (W x H x D)

432 x 189 x 427 mm

17" x 7 1/2" x 16 7/8"

Front Panel Height

(feet removed/for rack mount)

176 mm / 7"

THE ROTEL CO., LTD.

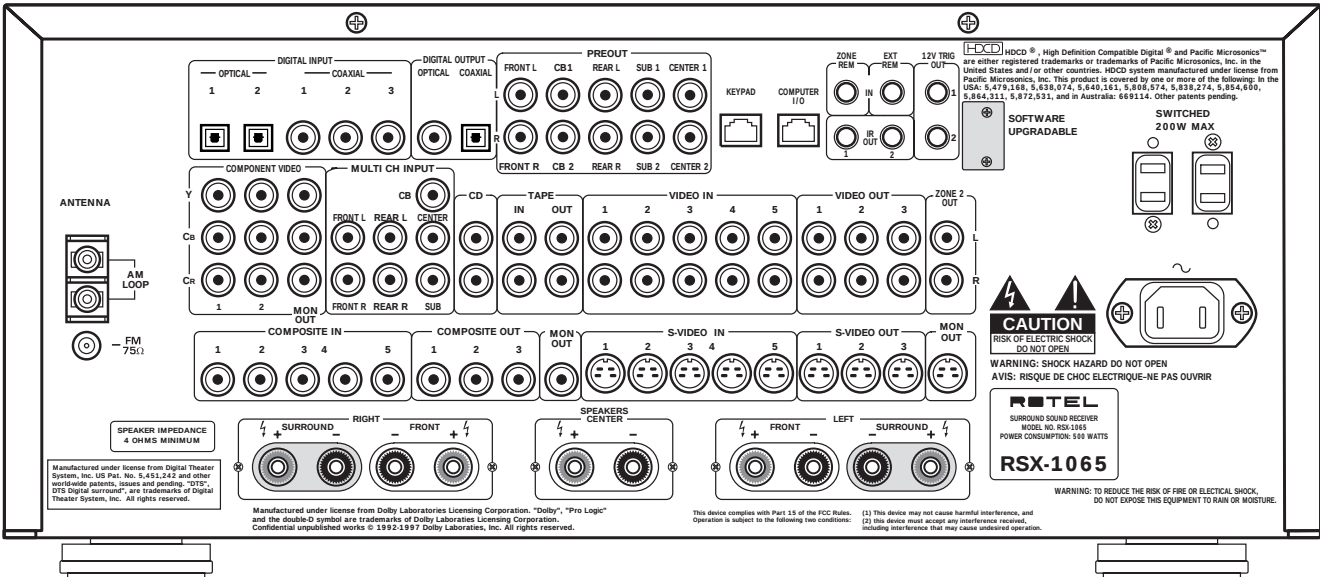
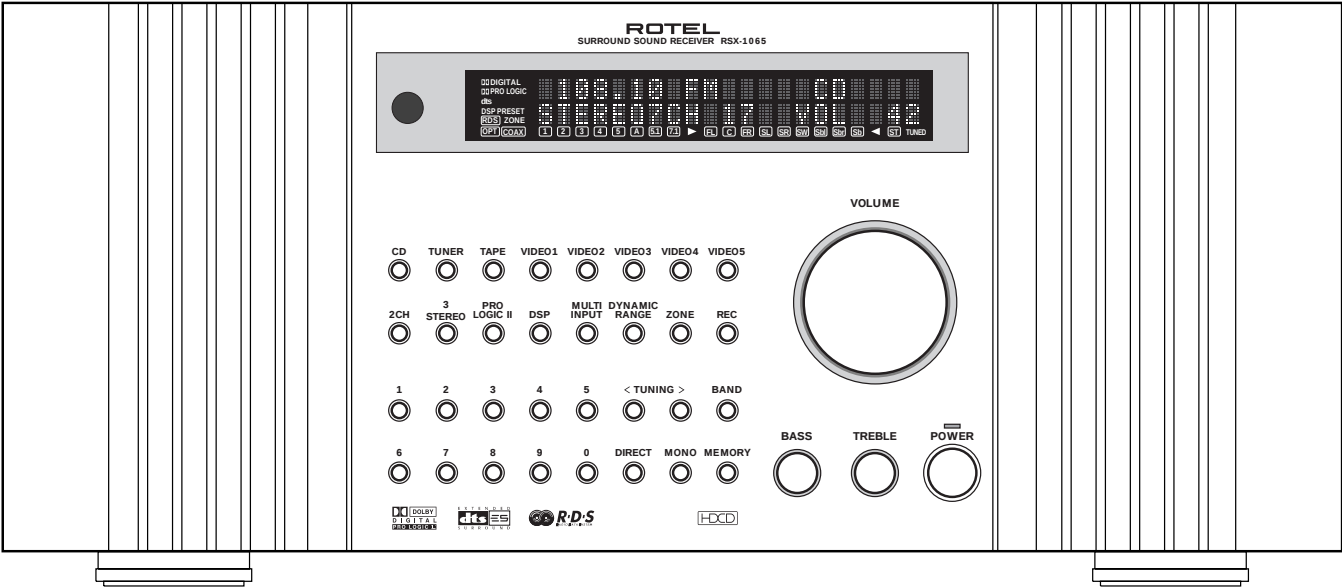
SHINSEN-BLD. 4F 10-10 SHINSEN-CHO, SHIBUYA-KU,
TOKYO 150-0045, JAPAN

Serial. NO.

Beginning 2281001 ~ 2291300

Y-357B-0110/pdf

Appearance



Parts List 1/9

SYMBOL	PARTS NO.	DESCRIPTION
016 E-1309A00 PCB ASSY (FIP)		
IC34	501 E-1309	PCB ASSY
IC31,32,33	031 SBX3010-52B	REMOTE RECEIVER
FL31	031 TD62C950RF	IC (FL DRIVER)
D31	035 HNR22ML02	FL TUBE
C32,33	037 KDS184RTK	CHIP DIODE
C34-36	041 UTES1H100-FB	ELECTROLYTIC CAPACITOR 50V10uF
R34	047 ECJ2VF1H104Z	CHIP CERAMIC CAPACITOR 0.1uF
CP31	055 ERJ6GEYJ103V	CHIP RESISTOR 10K
	068 S10B-PH-KS	CONNECTOR POST
016 E-1310A00 PCB ASSY (FRONT)		
XT1	501 E-1310	PCB ASSY
IC1*	023 CST16.0MXW	CERAMIC RESONATOR 16MHz
IC1*	031 CXP811P24Q-1	IC (OTP)
Q1,2	031 CXP81120-123Q	IC (MASKED)
D1	032 TC3399	TRANSISTOR 2SC3399
C7	034 2058322101	DIODE 1N4148
C13	041 UTES1E470-FB	ELECTROLYTIC CAPACITOR 25V47uF
C1,2	041 UTES1H3R3-FB	ELECTROLYTIC CAPACITOR 50V3.3uF
C8,9	043 TC50V101-A	CERAMIC CAPACITOR 100pF
C3-6	043 TC50V223-A	CERAMIC CAPACITOR 0.022uF
R1-6,21-23	043 TC50V821-A	CERAMIC CAPACITOR 820pF
R8	053 CR14-103J-A	CARBON RESISTOR 10K
R17	053 CR14-181J-A	CARBON RESISTOR 180R
R9-16	053 CR14-472J-A	CARBON RESISTOR 4.7K
ESW1	053 CR14-473J-A	CARBON RESISTOR 47K
ESW2,3	056 C-4678A01	ENCODER EC16B243040F (D25)
ESW4-35	056 C-4678A02	ENCODER EC16B242040A (D25)
CP1	061 C-4679A04	TACT SWITCH SKHHAPA010
CP2	068 S10B-PH-KS	CONNECTOR POST
CP3	068 S2B-PH-KS	CONNECTOR POST
CP4	068 S6B-PH-KS	CONNECTOR POST
	068 S7B-PH-KS	CONNECTOR POST
016 X-1311A01-02 PCB ASSY (POWER AMP)		
Q801-820,891	501 X-1311	PCB ASSY
Q886-888,890,892-894	032 TA1016-FG	TRANSISTOR
QQ821-825	032 TC2362-FG	TRANSISTOR
Q826-830	033 A1209-ST	TRANSISTOR
D801-810	033 C2911-ST	TRANSISTOR
D851	034 2058322101	DIODE 1N4148
ZD851	034 2058322101	DIODE 1N4148
ZD852	034 TRD15JST1	ZENER DIODE
C816-820	034 TRD9.1JST1	ZENER DIODE
C902	041 UTES1A101-FB	ELECTROLYTIC CAPACITOR 10V100uF
C903	041 UTES1C471-TF	ELECTROLYTIC CAPACITOR 16V470uF
C861-865,901	041 UTES1E101	ELECTROLYTIC CAPACITOR 25V100uF
C801-805,866-870,961-965	041 UTES1H010-FB	ELECTROLYTIC CAPACITOR 50V1uF
C821-830	041 UTES1H100-FB	ELECTROLYTIC CAPACITOR 50V10uF
C911-915	041 UTES1J471	ELECTROLYTIC CAPACITOR 63V470uF
C811-815,856-860,956-960	043 TC50V050	CERAMIC CAPACITOR 5pF
C806-810,851-855	043 TC50V221	CERAMIC CAPACITOR 220pF
VR801-805	043 TC50V331	CERAMIC CAPACITOR 330pF
R921-930,1001-1010	051 SFR001-222	SEMI-FIXED VOLUME 2K2
R846-850	054 NIR2-0.22JF	NIR RESISTOR 0.22
R856-860,866-870	054 TMF16-1000	METAL RESISTOR 100R
R801-805,976-980	054 TMF16-1000	METAL RESISTOR 100R
R965	054 TMF16-1001	METAL RESISTOR 1K
R961	054 TMF16-1001	METAL RESISTOR 1K
R831-835	054 TMF16-1003	METAL RESISTOR 100K
R816-825	054 TMF16-1201	METAL RESISTOR 1.2K
R964	054 TMF16-1501	METAL RESISTOR 1.5K
R931,932,934,935	054 TMF16-1501	METAL RESISTOR 1.5K
R933	054 TMF16-1801	METAL RESISTOR 1.8K
R936-940	054 TMF16-1801	METAL RESISTOR 1.8K
R1021-1025	054 TMF16-2001	METAL RESISTOR 2K
R951-955	054 TMF16-2201	METAL RESISTOR 2.2K
R841-845	054 TMF16-2202	METAL RESISTOR 22K
R811-815	054 TMF16-2702	METAL RESISTOR 27K
R806-810,836-840,886,888-890,956-960	054 TMF16-3300	METAL RESISTOR 330R
	054 TMF16-3302	METAL RESISTOR 33K

Parts List 2/9

SYMBOL	PARTS NO.	DESCRIPTION
R887	054 TMF16-3302	METAL RESISTOR 33K
R826-830	054 TMF16-4700	METAL RESISTOR 470R
R852,853,855	054 TMF16-47R0	METAL RESISTOR 47R
R851,854	054 TMF16-47R0	METAL RESISTOR 47R
R882,946-950,969	054 TMF16-6801	METAL RESISTOR 6.8K
R881,883-885	054 TMF16-6801	METAL RESISTOR 6.8K
R901-903	054 TMF16-82R0	METAL RESISTOR 82R
R904,905	054 TMF16-82R0	METAL RESISTOR 82R
R963	054 TMF3301	METAL RESISTOR 3.3K
R891-900,911-920	054 TMF3R30	METAL RESISTOR 3.3R
R966,967	054 TMF5101	METAL RESISTOR 5.1K
R962	054 TMF6802	METAL RESISTOR 68K
R941,942,944,945	054 TMF9100	METAL RESISTOR 910R
R943	054 TMF9100	METAL RESISTOR 910R
CP803-805	068 B10B-PH-KS	CONNECTOR POST
TP801-805,CP851	068 B2B-PH-KS	CONNECTOR POST
CP802	068 S10B-PH-KS	CONNECTOR POST
CP801	068 S11B-PH-KS	CONNECTOR POST
016 E-1314B00 PCB ASSY (TERMINAL)		
	501 E-1314	PCB ASSY
L501-505	021 TRL-332	SPEAKER COIL
Q501-503	032 TC3708-ST	TRANSISTOR
D501-503	034 T1N4003-TB	DIODE
C506-515	044 TBF014D0472J	MP CAPACITOR 4700pF
C501-505	044 TBF014D0473J	MP CAPACITOR 0.047uF
R527-530,532,533	053 CR14-390J-A	CARBON RESISTOR 39R
R526,531,534	053 CR14-472J-A	CARBON RESISTOR 4.7K
R505,510,515,520,525	054 1WS10JF	MOF RESISTOR
RL501-503	063 DH2TU-24	RELAY
TER502	067 4TR-3222#1	SPEAKER TERMINAL (GREEN, BLACK)
TER503	067 C-4493A00	SPEAKER TERMINAL (RED, BLACK)
TER501	067 C-4493A01	SPEAKER TERMINAL (BLUE, BLACK)
CP853	068 B2P-VH	CONNECTOR POST
CP854	068 B3P-VH	CONNECTOR POST
016 X-1317B01-04 PCB ASSY (POWER SUPPLY)		
	501 X-1317	PCB ASSY
HS5	017 C-4401A01	SUB HEAT SINK H=25
HS2	017 C-4682A02	SUB HEAT SINK H=45
HS1,HS3	017 C-4682A03	SUB HEAT SINK H=60
LF1050	021 2648701170	LINE COIL
IC1052,1053,1056	031 NJM7805FA	IC
IC1050	031 NJM7806FA	IC
IC1054	031 NJM7818FA	IC
IC1051	031 NJM7906FA	IC
IC1055	031 NJM7918FA	IC
Q1050	032 C4381-OY	TRANSISTOR
Q1051-1053,1055	032 TC3708-ST	TRANSISTOR
D1067	034 2058322101	DIODE 1N4148
DB100,101	034 MP254W	POWER DIODE
D1050-1066,1069	034 T1N4003-TB	DIODE
DZ1053-1056	034 TRD12JST1	ZENER DIODE
DZ1052	034 TRD24JST1	ZENER DIODE
DZ1050,1051	034 TRD3.9JST1	ZENER DIODE
DZ1057	034 TRD4.3EST1	ZENER DIODE
F1051	036 5ST1	FUSE 250V 1A
F801,F802	036 5ST10	FUSE 250V 10A
F1051	036 5ST800	FUSE 250V 800MA
C1090-1093	041 AM1J103	ELECTROLYTIC CAPACITOR 63V10000uF
C1080	041 UTES1C103	ELECTROLYTIC CAPACITOR 16V10000uF
C1083-1085,1088	041 TUTES1C332-TS	ELECTROLYTIC CAPACITOR 16V3300uF
C1067-1073	041 TUTES1H010-FB	ELECTROLYTIC CAPACITOR 50V1uF
C1074,1075,1077	041 TUTES1H220-FB	ELECTROLYTIC CAPACITOR 50V22uF
C1087	041 TUTES1J471-TS	ELECTROLYTIC CAPACITOR 63V470uF
C1086	041 TUTES1V222-TS	ELECTROLYTIC CAPACITOR 35V2200uF
C1076	041 TUTES1V331-TS	ELECTROLYTIC CAPACITOR 35V330uF
C1081,1082	041 TUTES1V332-TS	ELECTROLYTIC CAPACITOR 35V3300uF
C1052-1066,1078	043 TC500V103	CERAMIC CAPACITOR 0.01uF
C1050	044 DE1307E472M	SPARK KILLER
R1068	053 CR14-100J-A	CARBON RESISTOR 10R
R1069,1070	053 CR14-220J-A	CARBON RESISTOR 22R
R1062,1072	053 CR14-221J-A	CARBON RESISTOR 220R

Parts List 3/9

SYMBOL	PARTS NO.	DESCRIPTION
R1065-1067	053 CR14-222J-A	CARBON RESISTOR 2.2K
R1061	053 CR14-272J-A	CARBON RESISTOR 2.7K
R1073	053 CR14-3R3J-A	CARBON RESISTOR 3.3R
R1063,1064	053 CR14-471J-A	CARBON RESISTOR 470R
R1071	053 CR14-473J-A	CARBON RESISTOR 47K
R1059,1060	053 CR14-4R7J-A	CARBON RESISTOR 4.7R
R1057	054 1WS10JF	MOF RESISTOR
R1,R2	054 2WS2.2JF	MOF RESISTOR
R1,R2	054 2WS2.2JF	MOF RESISTOR
R1050 (US Version Only)	054 MOF12-3M3	MOF RESISTOR
RL1052,1053	063 DG2SU-24	RELAY
RL1050	063 DH1U-24	RELAY
CP105-109,112,130,131,853	068 B2P3-VH	CONNECTOR WAFER
CP111	068 4428503746	CONNECTOR WAFER (JE202B-1 T-3)
CP110	068 4428505746	CONNECTOR WAFER (JE202B-1 T-5)
CP405	068 B12B-PH-KS	CONNECTOR WAFER
CP123-125	068 B2B-PH-KS	CONNECTOR WAFER
CP117,851,852	068 B2P-VH	CONNECTOR WAFER
CP114	068 B3B-EH	CONNECTOR WAFER
CP113,816,817	068 B3B-PH-KS	CONNECTOR WAFER
CP118	068 B4P-VH	CONNECTOR WAFER
CP120	068 B5P-VH	CONNECTOR WAFER
CP102,121,122	068 B6B-PH-KS	CONNECTOR WAFER
CP115	068 B7B-EH	CONNECTOR WAFER
	068 C-4765A01	SETTING CONNECTOR
CP1,CP2	069 B1P-LA-TA	1P LA PIN
SW1 (US Version Only)	069 C-4372A00	AC OUTLET
GND1-3	069 C-4484A00	EARTH LUG
016 E-1312B00 PCB ASSY (DIGITAL-1)		
	501 E-1312	PCB ASSY
IC439	2108000210	IC DRIVER HIN232CB SMD
IC410-411,IC420	2108019128	IC 74HCT125
IC408	2108021102	IC 74HC157
IC423	2109001110	IC 74VHC244M
IC417-418	2109001150	IC 74VHC 574M
IC434	2138000143	IC AT24C16PC2.7 EPROM
IC404-407	2138001135	IC 74HCU04
IC416	2138112003	IC DSP CS49326-CL
IC433	2138307001	IC CPU TMP95C063F 16-BIT MICROCONTROL
IC419	031 39VF040	IC FLASH MEMORY 39VF040 70-4C-NH PLCC (V1.2/V2.0)
IC409	2139000001	IC SHIFT REGISTOR HEF4094BT 8-BIT SMD
IC414	2139214002	IC AK5351-20bit ADC
IC424-427	2139214003	IC AK4324-96kHz/24bit DAC
IC415	2139214004	IC DIR AK4112A 96kHz 24BIT
IC432	2168020108	IC NJU7311AM ANALOG SWITCH
IC412-413, IC428-431	2168220142	IC NJM5532M DUAL OPAMP
IC440	2168620009	IC REG 7809 MOLD
IC421	2169600116	IC REG AME1117CCGT - LDO3.3V
IC422	2169600117	IC REG AME1117BCGT - LDO 2.5V SMD
IC436	031 EN29F002NT-X65	IC FLASH MEMORY EN29F002NT-70P
IC435	2191200001	IC SRAM MEMORY IS62C256 32K*8BIT
Q410-405,Q407,QCT401,QFL401,QFR401	2207606010	TR CHIP NPN KRC107S
D405-408	2257103110	DIODE CHIP KDS184RTK
D401-404	2257104100	DIODE CHIP KDS226RTK
IC437-438,IC441	2408000136	OPTO COUPLER LTV-817
IC403	2408008001	OPTO JACK TOTX178B
IC401-402	2408218001	OPTO JACK TORX-178B
L401-404,L407-410	2648702148	BEAD COIL CHIP 2012 CIM 21J 102
L405-406	2648702149	BEAD COIL CHIP 2012 CIM 21P 110
R425,R431,R458,R494	3099100170	RES CHIP 2012 10
R404,R411,R418,R433,R450-451,	3099101170	RES CHIP 2012 100
R476,R488-491,R441	3099101170	RES CHIP 2012 100
R449,R492-R493,R473-475,RCT408,RSL408,RSR	3099102170	RES CHIP 2012 1K
408,RSW408,RFL408,RFR408,RZL408,RZR408	3099102170	RES CHIP 2012 1K
R444,R421,R424,R410,R427,R430,R460-569,	3099103170	RES CHIP 2012 10K
R478-480,R482-483,R485-487,R407,R414,417,	3099103170	RES CHIP 2012 10K
RAL401-402,404,RAR401-402,404,R440	3099103170	RES CHIP 2012 10K
R412,RCT407,R419,RFL407,RFR407,RSL407,	3099104170	RES CHIP 2012 100K
R405,RSR407,RSW407,RZL407,RZR407	3099104170	RES CHIP 2012 100K
R442,R481	3099105170	RES CHIP 2012 1M
R443	3099183170	RES CHIP 2012 18K

Parts List 4/9

SYMBOL	PARTS NO.	DESCRIPTION
R432,R429,R426,R415,R471,	3099221170	RES CHIP 2012 220
R500-507,R472,R422,R408	3099221170	RES CHIP 2012 220
R434,RAL408-409,RAR408-409	3099331170	RES CHIP 2012 330
RAR405,RAL405	3099332170	RES CHIP 2012 3K3
R439	3099333170	RES CHIP 2012 33K
R406,R413,R420,R445-448,R452-457,	3099472170	RES CHIP 2012 4K7
R484,RAL406-407,RAR406-407	3099472170	RES CHIP 2012 4K7
RAL403,RAR403	3099473170	RES CHIP 2012 47K
R438,R435-437	3099561170	RES CHIP 2012 560
RCT401-405,RFL401-405,RFR401-405,	3099562170	RES CHIP 2012 5K6
RSL401-405,RSR401-405,RSW401-405,	3099562170	RES CHIP 2012 5K6
RZL401-405,RZR401-405	3099562170	RES CHIP 2012 5K6
R401-403	3099750170	RES CHIP 2012 75
RFL406,RSL406,RSW406,RFR406,	3099912170	RES CHIP 2012 9K1
RCT406,RZL406,RZR406,RSR406	3099912170	RES CHIP 2012 9K1
C419,C429,C436,C438,C440-441,C443,	3479310071	E CAP 50V10uF
C448,C450-451,C470-473,C475,C479,	3479310071	E CAP 50V10uF
C481-484,C489,C494,C499,C504,C520,	3479310071	E CAP 50V10uF
CAL401,CAL403,CAR401,CAR403,	3479310071	E CAP 50V10uF
CCT404,CFL404,CFR404,CSL404,	3479310071	E CAP 50V10uF
CSR404,CSW404,CZL404,CZR404	3479310071	E CAP 50V10uF
C476-477,C527	3479310123	E CAP 10V100uF
C522-525	3479310971	E CAP 50V1uF
C516	3479322871	E CAP 50V0.22uF
C460	3479322971	E CAP 50V2.2uF
C517	3479333971	E CAP 50V3.3uF
C432,C459,C485,C487,C490,C492,	3479347041	E CAP 25V47uF
C433,C495,C497,C500,C502	3479347041	E CAP 25V47uF
C466,CSW402-403	3536103122	C CAP 2012 CHIP 50V0.01uF
C401-402,C412-418,C423,C428,C430-431	3536104122	C CAP 2012 CHIP 50V0.1uF
C435,C437,C439,C442,C444,C447,C449	3536104122	C CAP 2012 CHIP 50V0.1uF
C455-456,C458,C461-463,C468-469,	3536104122	C CAP 2012 CHIP 50V0.1uF
C478,C474,C457,C480,C486,C488,C491,	3536104122	C CAP 2012 CHIP 50V0.1uF
C493,C496,C498,C501,C503,C507-514,	3536104122	C CAP 2012 CHIP 50V0.1uF
C521, C526,C529-530,CAL402,CAR402	3536104122	C CAP 2012 CHIP 50V0.1uF
CCT402-403,CFL402-403,CFR402-403,	3536121122	C CAP 2012 CHIP 50V120pF
CSL402-403,CSR402-403,	3536121122	C CAP 2012 CHIP 50V120pF
CZL402-403,CZR402-403	3536121122	C CAP 2012 CHIP 50V120pF
C421,C426,C515	3536221122	C CAP 2012 CHIP 50V220pF
CAL404,CAR404	3536222122	C CAP 2012 CHIP 50V2200pF
C404,C407-408,C410,C405,C411,C422,C427	3536223122	C CAP 2012 CHIP 50V0.022uF
C445-446,C505-506,C452,C453	3536270122	C CAP 2012 CHIP 50V27pF
CCT401,CFL401,CFR401,CSL401,	3536331122	C CAP 2012 CHIP 50V330pF
CSR401,CSW401,CZL401,CZR401	3536331122	C CAP 2012 CHIP 50V330pF
C403,C406,C409	3536470122	C CAP 2012 CHIP 50V47pF
C464	3536471122	C CAP 2012 CHIP 50V470pF
CCT405,CFR405,CFL405	3536473122	C CAP 2012 CHIP 50V0.047uF
XT402	3908101130	X-TAL 12.288MHZ
XT401	3908101140	X-TAL 24.576MHZ
CP126	068 B6B-PH-KS	CONNECTOR POST
CP104	068 B7B-PH-KS	CONNECTOR POST
CP124	068 B12B-PH-KS	CONNECTOR POST
CP129	068 B13B-PH-KS	CONNECTOR POST
RCA405	4438100230	JACK RCA 4P(BK)
RCA404	4438100320	JACK RCA 6P(WWW,RRR)
JK401-403	4438300210	JACK MINIATURE 2P(φ 3.5)HSJ1002-01-1020
JK404-405	4438600310	JACK RJ45,8P(SY010-8P/K)
IC419 SOCKET	4448032091	SOCKET FOR IC PLCC 32PIN
IC436 SOCKET	4448032692	SOCKET FOR IC DIP 32PIN P2.54
SW401	4688000010	SW DIP 2P
016 E-1313A00 PCB ASSY (DIGITAL-2)		
	501 E-1313	PCB ASSY
IC706-708,IC715	2138007120	IC TC9459F ELECT VOL
IC709,IC713	2138007130	IC TC9184P ELECT TONE
IC717	2168020108	IC NJU7311AM ANALOG SWITCH
IC701-705,IC710-712,IC714,IC716	2168220142	IC NJM5532M DUAL OPAMP
QF701,QS701,QSS701,QC701,QSW701	2207206010	TR CHIP PNP KRA107S
QF702-703,QFL/R701,QSL/R701-702,	2207606011	TR CHIP NPN KRC231S
QC702-703,QS702,QSS702,QSW702-703	2207606011	TR CHIP NPN KRC231S
DSW701,DF701,DC701,DS701,DSS701	2257103110	DIODE CHIP KDS184RTK
RFL/R701	3099000170	RES CHIP 2012 0R

Parts List 5/9

SYMBOL	PARTS NO.	DESCRIPTION
RFL/R707-708,RC707,RSW718,	3099101170	RES CHIP 2012 100
RSL/R707,RSL/R719,RSW711,RML/R701	3099101170	RES CHIP 2012 100
RF703-705,RF710-712,RFL/R716,RFL/R719,	3099102170	RES CHIP 2012 1K
RC715,RCW712-714,RSW723,R703-705,	3099102170	RES CHIP 2012 1K
RS703-705,RSL/R712-713,RS715-717,	3099102170	RES CHIP 2012 1K
RSL/R724,RFL/R702,RCW705-707,	3099102170	RES CHIP 2012 1K
RSW701,RSW706,RSL/R701,RC701	3099102170	RES CHIP 2012 1K
RSL/R709,RSL/R715,RSL/R721,RC703,RSW703,	3099103170	RES CHIP 2012 10K
RSW714,RML/R703,RSL/R703,RF718-719	3099103170	RES CHIP 2012 10K
RFL/R709,RFL/R718,RC708,RC717,RSW719,	3099104170	RES CHIP 2012 100K
RSW722,RSL/R708,RSL/R711,RSL/R714,	3099104170	RES CHIP 2012 100K
RSL/R717,RSL/R720,RSL/R723,RF715,RS722,	3099104170	RES CHIP 2012 100K
RSW724-725,RF716,RS710-711,RS723,	3099104170	RES CHIP 2012 100K
RC720-721,RW716,RFL/R703,RFL/R706	3099104170	RES CHIP 2012 100K
RSW702,RC702,RSW704,707,710,712,715,	3099104170	RES CHIP 2012 100K
RML/R702,704,RSL/R702,705,RC705	3099104170	RES CHIP 2012 100K
RSL/R710,RSL/R722	3099182170	RES CHIP 2012 1K8
RSW720	3099183170	RES CHIP 2012 18K
RF706-709,RCW710-711,R701-702,	3099221170	RES CHIP 2012 220
RS706-707,RS718-719,RF701-702,RS701-702,	3099221170	RES CHIP 2012 220
RM701-702,RS708-709,RS713-714,	3099221170	RES CHIP 2012 220
RCW701-702,RSW727-728,RCW703-704,	3099221170	RES CHIP 2012 220
RF713-714,RS720-721,RCW708-709	3099221170	RES CHIP 2012 220
RC718	3099222170	RES CHIP 2012 2K2
RFL/R714,RC713	3099273170	RES CHIP 2012 27K
RSW709	3099392170	RES CHIP 2012 3K9
RFL/R712,RC711	3099393170	RES CHIP 2012 39K
RFL/R717,RC716,RSL/R716,RS712,RF717,	3099472170	RES CHIP 2012 4K7
RS724,RFL/R704-705,RC704,RSL/R704	3099472170	RES CHIP 2012 4K7
RFL/R710,RC709	3099474170	RES CHIP 2012 470K
RFL/R715,RC714	3099562170	RES CHIP 2012 5K6
RFL/R713,RC712	3099564170	RES CHIP 2012 560K
RSW713	3099682170	RES CHIP 2012 6K8
RSW721	3099821170	RES CHIP 2012 820
RC722, RSW726	3099822170	RES CHIP 2012 8K2
RFL/R711,RC710	3099823170	RES CHIP 2012 82K
RSW708	3099912170	RES CHIP 2012 9K1
CFL/R701-702,CFL/R705-706,CFL/R710,	3479310071	E CAP 50V10uF
CC701,CC704-705,CC709,CSW714,717,	3479310071	E CAP 50V10uF
CSL/R701,CSL/R704-705,CSL/R708-709,	3479310071	E CAP 50V10uF
CSL/R712-713,CSL/R716,CSW701,CSW704-705,	3479310071	E CAP 50V10uF
CSW708-709,CSW712-713,CML/R701,CML/R704	3479310071	E CAP 50V10uF
CFL/R709,CC708	3479310971	E CAP 50V1uF
CF701-705, CF707,CF709-710,CF712-713,	3479347041	E CAP 25V47uF
CS701-706,708-711,C701-702,CM701-702,	3479347041	E CAP 25V47uF
CCW701-705,707,709-710,CSW719-720	3479347041	E CAP 25V47uF
CFL/R707,CC706,CSW715-716,CSL/R706-707,	3536101122	C CAP 2012 CHIP 50V100pF
CSL/R710-711,CSL/R714-715,CFL/R703-704,CC	3536101122	C CAP 2012 CHIP 50V100pF
702-703,CSW703,CML/R702-703,CSL/R702-703	3536101122	C CAP 2012 CHIP 50V100pF
CF706,CF708,CCW706,CCW708,CF711,	3536104122	C CAP 2012 CHIP 50V0.1uF
CS707,CS714,CC715,CSW718,CSW702,	3536104122	C CAP 2012 CHIP 50V0.1uF
CSW707	3536222122	C CAP 2012 CHIP 50V0.0022uF
CFL/R708,CC707	3536270122	C CAP 2012 CHIP 50V27pF
CSW706,CSW710	3536563122	C CAP 2012 CHIP 50V0.056uF
CSW711	3536822122	C CAP 2012 CHIP 50V0.0082uF
CFL/R713,CC712	3679123120	MYLAR CAP 100V0.012uF
CFL/R715,CC714	3679223120	MYLAR CAP 100V0.022uF
CFL/R714,CC713	3679272120	MYLAR CAP 100V0.0027uF
CFL/R711,CC710	3679563120	MYLAR CAP 100V0.056uF
CFL/R712,CC711	3679682120	MYLAR CAP 100V0.0068uF
CP401,CP114	068 B3B-PH-KS	CONNECTOR POST
CP125	068 B6B-PH-KS	CONNECTOR POST
CP801	068 B12B-PH-KS	CONNECTOR POST
CP402,CP403,CP404	068 B15B-PH-KS	CONNECTOR POST
016 E-1315C00 PCB ASSY (INPUT PCB)		
	501 E-1315	PCB ASSY
IC302	2138007120	IC TC9459F ELECT VOL
IC207	2139000001	IC SHIFT REGISTOR HEF4094BT 8-BIT SMD
IC151,IC201-203	2168020110	IC TC9163AF SMD ANALOG SWITCH
IC204-206,IC301,IC303,ICM201	2168220142	IC NJM5532M DUAL OPAMP
IC152	2169505002	IC TSH94ID

Parts List 6/9

SYMBOL	PARTS NO.	DESCRIPTION
Q202,Q302	2207206010	TR CHIP PNP KRA107S
Q151,Q152,Q201,Q203,Q204,Q301,Q303,Q304	2207606011	TR CHIP NPN KRC231S
ZD182	2258599519	DIODE ZENER T-72 UZ5V1
R200	3029270570	RES MF 27 2W
R165,R166	3099100170	RES CHIP 2012 10
R167-170,R335	3099101170	RES CHIP 2012 100
R175-178,R201-229,R243-248,R267,R268,	3099102170	RES CHIP 2012 1K
R271,272,R274-276,R305,306,313,314,317-	3099102170	RES CHIP 2012 1K
319,321,322,325,326,331,332,RM207,208	3099102170	RES CHIP 2012 1K
R171-174,RM205,RM206	3099103170	RES CHIP 2012 10K
R249-254,R261-266,R307,308,311,312,	3099104170	RES CHIP 2012 100K
R323,324,329,330,RM203,204,209,210	3099104170	RES CHIP 2012 100K
R269,R270	3099182170	RES CHIP 2012 1K8
R163,R164,R231-242,R301-304,	3099221170	RES CHIP 2012 220
R315,R316,RM201,RM202	3099221170	RES CHIP 2012 220
R273,R334	3099332170	RES CHIP 2012 3K3
R179,R180,R255-260,R309,R310,R327,R328	3099472170	RES CHIP 2012 4K7
R151-156,R160-162	3099750170	RES CHIP 2012 75
C151,C152,CM203,CM204,C289,	3479310071	E CAP 50V10uF
C290,295,296,CM207,208	3479310071	E CAP 50V10uF
C153,C154,C157-160	3479310123	E CAP 10V100uF
C182	3479310971	E CAP 50V1uF
C251-262,C301-304,C309,C310,CM201,CM202	3479347041	E CAP 25V47uF
C263-268,C305,C306,C313,C314,C317-320	3479347971	E CAP 50V4.7uF
C201-229,C231-246,C249-250,C269-287,	3536101122	C CAP 2012 CHIP 50V100pF
C291-294,307,308,315,316,CM205,206	3536101122	C CAP 2012 CHIP 50V100pF
C311,C312	3536103122	C CAP 2012 CHIP 50V0.01uF
C155,C156,C181,C321	3536104122	C CAP 2012 CHIP 50V0.1uF
CP127	068 B9B-PH-KS	CONNECTOR POST
JAK201	4438100220	JACK RCA 4P(WW,RR)
JAK203-206	4438100320	JACK RCA 6P(WWW,RRR)
JAK151	4438101220	JACK RCA 9P(GR,BL,R)
JAK202	4438101320	JACK RCA 3P(B,B,B)
016 X-1346A00 PCB ASSY (INPUT SWITCH)		
	501 X-1346	PCB ASSY
ICW261,262	031 NJM5532M	IC (OPE AMP SMD)
CW273	041 TUTES1H0100-FB	E CAP 50V10uF
CW261,262,265,266	041 TUTES1H470-FB	E CAP 50V47uF
CW270	042 TP50V333J	MYLAR CAP 50V0.033uF
CW269	044 50MSAN224J	FILM CAP 50V0.22uF
CW263,264,267,268	047 ECJ2VG1H104Z	C CAP CHIP 0.1uF
CW271,272	047 ECJ2VG1H222Z	C CAP CHIP 2200pF
RW271-275	055 ERJ6GEYJ103V	RESISTOR CHIP 10K
RW269,276	055 ERJ6GEYJ104V	RESISTOR CHIP 100K
RW266,267	055 ERJ6GEYJ123V	RESISTOR CHIP 12K
RW265	055 ERJ6GEYJ152V	RESISTOR CHIP 1K5
RW261-264	055 ERJ6GEYJ221V	RESISTOR CHIP 220
RW277	055 ERJ6GEYJ224V	RESISTOR CHIP 220K
RW268	055 ERJ6GEYJ273V	RESISTOR CHIP 27K
016 E-1316B00 PCB ASSY (VIDEO)		
	501 E-1316	PCB ASSY
D1001,D1002	2058322101	DIODE 1N4148
IC1007	2139000001	IC SHIFT REGISTOR HEF4094BT 8-BIT SMD
IC1001-1003	2168020110	IC TC9163AF SMD ANALOG SWITCH
IC1008-1009	2168222113	IC KS5520 OSD
IC1004-1006	2169505002	IC TSH94ID
Q1003-1005,Q1007,Q1008,Q1011	2208206120	TR PNP KTA1271
Q1006,Q1009,Q1010,Q1012-1014	2208606120	TR NPN KTC3203
Q1015,1016	2238006103	TR PNP KRA107M
Q1001,Q1002,Q1017	2238006104	TR NPN KRC107M
ZD1003	2258599519	DIODE ZENER T-72 UZ5V1
L1002,L1004	2648610082	INDUCTOR AXIAL LAL02TB 100K
L1001,L1003	2648610182	INDUCTOR AXIAL LAL02TB 101K
R1083-1088,R1107,R1134	3099100170	RES CHIP 2012 10
R1038,1042,1050,1051,1057,1058,1064,1065,	3099101170	RES CHIP 2012 100
R1070,1074,1078,7081,1089,1121,1148	3099101170	RES CHIP 2012 100
R1035,1036,1039,1040,R1043-1047,R1052-	3099102170	RES CHIP 2012 1K
1054,1060,1061,1067,1068,1071,1072,1075,	3099102170	RES CHIP 2012 1K
R1076,1095,1112-1114,1125-1133,1139-1141	3099102170	RES CHIP 2012 1K
R1037,1041,1048,1049,1055,1056,1062,	3099103170	RES CHIP 2012 10K
R1063,1069,1073,1077,1080,1124,1151	3099103170	RES CHIP 2012 10K

Parts List 7/9

SYMBOL	PARTS NO.	DESCRIPTION
R1117,R1144	3099104170	RES CHIP 2012 100K
R1123,R1149	3099105170	RES CHIP 2012 1M
R1110,R1137	3099122170	RES CHIP 2012 1K2
R1122,R1150	3099123170	RES CHIP 2012 12K
R1120,R1147	3099181170	RES CHIP 2012 180
R1116,R1143	3099204170	RES CHIP 2012 200K
R1019-1024	3099221170	RES CHIP 2012 220
R1101,R1102,R1156,R1157	3099222170	RES CHIP 2012 2K2
R1108,R1135	3099223170	RES CHIP 2012 22K
R1111,R1138	3099229170	RES CHIP 2012 2R2
R1109,R1136	3099392170	RES CHIP 2012 3K9
R1091-1094,R1097,1098,1100,1119,	3099470170	RES CHIP 2012 47
R1146,1152,1153,1155,1162,1163	3099470170	RES CHIP 2012 47
R1059,R1066,R1079,R1082,R1096,R1115,R1142	3099472170	RES CHIP 2012 4K7
R1118,R1145	3099512170	RES CHIP 2012 5K1
R1103,R1104,R1158,R1159	3099563170	RES CHIP 2012 56K
R1099,R1154	3099680170	RES CHIP 2012 68
R1105,R1106,R1160,R1161	3099682170	RES CHIP 2012 6K8
R1001-1018,R1025-1034	3099750170	RES CHIP 2012 75
C1005,C1009-1014	3479310071	E CAP 50V10uF
C1001,1002,1004,C1006-1008,C1015,	3479310123	E CAP 10V100uF
C1047-1049,C1051,C1020-1037,C1068,1070	3479310123	E CAP 10V100uF
C,1003,C1056,C1058,C1063	3479310971	E CAP 50V1uF
C1057,C1062	3479322971	E CAP 50V2.2uF
C1059,C1069	3479347871	E CAP 50V0.47uF
C1044,C1045,C1066,C1067	3528330210	C CAP RADIAL 33pF(CH)
C1018,C1019,1054,C1055	3528560210	C CAP RADIAL 56pF(CH)
C1046,C1053,C1061,C1065	3536101122	C CAP 2012 CHIP 100pF
C1060,C1064	3536103122	C CAP 2012 CHIP 0.01uF
C1071	3536104122	C CAP 2012 CHIP 0.1uF
C1016,C1017,C1038-1043,C1050,C1052	3536223122	C CAP 2012 CHIP 0.022uF
XT1001,1002	3938201950	X-TAL 14.31818MHZ
CP128	068 B4B-PH-KS	CONNECTOR POST
SW1005,1006,1007	4438100520	JACK RCA 3P(Y)
SW1001,1002,1003	4438500220	JACK S-VIDEO 3P YKF51-5520
016 E-1325B00 (TUNER PCB)		
	501 E-1325	PCB ASSY
	JE540-0210586N-POB	ANT TERMINAL JACK SC0210586N
	PKSTF404-VA00001-0	FM FRONT-END KST-F404VA-1
T3,T4	LKS75E00-5P07668-2	B.P.F 01011-101
R27	JE21A-4XX3300J-AOR	CARBON FILM RESISTOR 1/4W 330
R42	JE21A-3XX0220J-AOS	CARBON FILM RESISTOR 1/8W 22
R66	JE21A-6XX0220J-AOR	CARBON FILM RESISTOR 1W 22
C28	JE313-K16G101J-ROS	CERAMIC CAPACITOR C1608 COG 1H 100pF
C8,10	JE313-K16G200J-ROS	CERAMIC CAPACITOR C1608 COG 1H 20pF
C12,35,36	JE313-K16G221J-ROS	CERAMIC CAPACITOR C1608 COG 1H 220pF
C26,34	JE313-K16G331J-ROS	CERAMIC CAPACITOR C1608 COG 1H 330pF
C37	JE313-K16G470J-ROS	CERAMIC CAPACITOR C1608 COG 1H 47pF
C41	JE313-K16G561J-ROS	CERAMIC CAPACITOR C1608 COG 1H 560pF
C38	JE313-K16G560J-ROS	CERAMIC CAPACITOR C1608 COG 1H 56pF
C27	JE313-K16G820J-ROS	CERAMIC CAPACITOR C1608 COG 1H 82pF
C7,13,14,17,18,19,20,21,22,23,29,31,33,39	JE313-G16X473K-ROS	CERAMIC CAPACITOR C1608 X7R 1C 0.047uF
C2,9	JE313-K16X103K-ROS	CERAMIC CAPACITOR C1608 X7R 1H 0.01uF
C1,3,4,5,32	JE313-K16X223K-ROS	CERAMIC CAPACITOR C1608 X7R 1H 0.022uF
C30	JE313-G16X393K-ROS	CERAMIC CAPACITOR C1608 X7R 1H 0.039uF
C6,16,24,25,40	JE313-K16X102K-ROS	CERAMIC CAPACITOR C1608 X7R 1H 1000pF
C44,45	JE313-K16X272K-ROS	CERAMIC CAPACITOR C1608 X7R 1H 2700pF
C42,43	JE313-K16X822K-ROS	CERAMIC CAPACITOR C1608 X7R 1H 8200pF
CF01	JE41I-A7MA5AXX-BOC	CERAMIC FILTER L10.7MA5A
CF02	JE41I-A7MS3AAA-BOC	CERAMIC FILTER L10.7MS3A-10A
CF04	JE41I-456F11XX-BOC	CERAMIC FILTER ZTB456F11
J04,J05,J06	JE24S-1160000X-ROS	CHIP RESISTOR R1608 0R
R43	JE24S-1161501J-ROS	CHIP RESISTOR R1608 1.5K
R40,54,57	JE24S-1161801J-ROS	CHIP RESISTOR R1608 1.8K
R12,17	JE24S-1161000J-ROS	CHIP RESISTOR R1608 100
R13	JE24S-1161003J-ROS	CHIP RESISTOR R1608 100K
R10,24,25,26,34,39,48,68	JE24S-1161002J-ROS	CHIP RESISTOR R1608 10K
R1,30,49	JE24S-1161502J-ROS	CHIP RESISTOR R1608 15K
R18,20,21,22,23,46	JE24S-1161001J-ROS	CHIP RESISTOR R1608 1K
R19,58	JE24S-1162201J-ROS	CHIP RESISTOR R1608 2.2K
R41	JE24S-1162701J-ROS	CHIP RESISTOR R1608 2.7K

Parts List 8/9

SYMBOL	PARTS NO.	DESCRIPTION
R11,35,44	JE24S-1160220J-ROS	CHIP RESISTOR R1608 22
R2	JE24S-1162200J-ROS	CHIP RESISTOR R1608 220
R52,53,55,56	JE24S-1162203J-ROS	CHIP RESISTOR R1608 220K
R3,33,62,64	JE24S-1162202J-ROS	CHIP RESISTOR R1608 22K
R7,38,60	JE24S-1163301J-ROS	CHIP RESISTOR R1608 3.3K
R9	JE24S-1163300J-ROS	CHIP RESISTOR R1608 330
R59	JE24S-1163902J-ROS	CHIP RESISTOR R1608 39K
R14,61,63	JE24S-1164701J-ROS	CHIP RESISTOR R1608 4.7K
R8	JE24S-1164700J-ROS	CHIP RESISTOR R1608 470
R28,29,45	JE24S-1164702J-ROS	CHIP RESISTOR R1608 47K
R16,47	JE24S-1165601J-ROS	CHIP RESISTOR R1608 5.6K
R5,6	JE24S-1165600J-ROS	CHIP RESISTOR R1608 560
R50	JE24S-1168202J-ROS	CHIP RESISTOR R1608 82K
J01,J08,J09,J10	JE24S-3320000X-ROS	CHIP RESISTOR R3216 0R
R51	JE24S-3324700J-ROS	CHIP RESISTOR R3216 470
R37	JE24S-3320680J-ROS	CHIP RESISTOR R3216 68
Q1	JE13S-C3142J4X-ROS	CHIP TR 2SC3142-J4
Q8	JE13S-C2814F4X-ROS	CHIP TRANSISTOR 2SC 2814-F4
Q9,Q10	JE13S-KRC231SX-ROE	CHIP TRANSISTOR 2SC 2814-F4
Q6,Q7	JE13S-DTA114EK-ROR	CHIP TRANSISTOR DTA114EKA
Q5	JE13S-C143TKAX-ROR	CHIP TRANSISTOR DTC143TKA(NPN)
CP100	068 B5B-PH-KS	CONNECTOR POST
CP101	068 B9B-PH-KS	CONNECTOR POST
X-TAL2	JE43S-43320327-BOS	CRYSTAL 4.332MHz(2pF)/49S
X-TAL1	JE43U-72000312-BOS	CRYSTAL 7.2MHz(12pF)/49U
D1,2,3,4,7	JE14I-1N4148XX-AOR	DIODE 1N4148
D6	JE14I-MTZJ3R32-AOR	DIODE ZENER MTZ 3.3V
D5	JE14I-MTZJ5R12-AOR	DIODE ZENER MTZ 5.1V
EC05,17,18,19,20,21,22	JE32R-G5BA100M-BOL	ELECTROLYTIC CAPACITOR 16V10uF
EC02,04,06,10,12	JE32R-G5BA470M-BOL	ELECTROLYTIC CAPACITOR 16V47uF
EC01,03,09,23	JE32R-J5BA2R2M-BOL	ELECTROLYTIC CAPACITOR 35V2.2uF
EC08	JE32R-J5BA3R3M-BOL	ELECTROLYTIC CAPACITOR 35V3.3uF
EC13	JE32R-K5BAR22M-BOL	ELECTROLYTIC CAPACITOR 50V0.22uF
EC07,11,14,15,16	JE32R-K5BA010M-BOL	ELECTROLYTIC CAPACITOR 50V1uF
FD1	LKSZ7310-X000266-1	FM DET COIL FD1 (266)
FD2	LKSZ7310-X000267-0	FM DET COIL FD2 (267)
IC04	JE11S-BU1924FX-ROR	IC BU1924F (RDS)
IC01	JE11I-LA1266XX-SOS	IC LA1266 (FM-IF, AM-RF)
IC03	JE11I-LA3401XX-SOS	IC LA3401 (FM-MPX)
IC02	JE11I-LC72131X-SOS	IC LC72131(PLL)
IF BLOCK	LKSNT111-I000000-0	IF COIL BLOCK KSNT-111I
L1	LCH6700B-637601D-0	INDUCTOR COIL 637-601D(20.8mH)
R36	JE22A-3XX2502F-AOS	METAL FILM RESISTOR 1/8W 25K
RF BLOCK	LKSNT203-M000001-0	RF COIL BLOCK KSNT-203M-1
SVR1	JE27I-0001002P-BOY	SVR EVN D8A A03 B14 (10K)
SVR3	JE27I-0001003P-BMA	SVR EVN D8A A03 B15 (100K)
SVR2	JE27I-0005002P-BMA	SVR EVN D8A A03 B54 (50K)
HEAT SINK ASSEMBLY		
	013 TD4-10A00	H/S SUPPORT
	017 TD3-03A00	HEAT SINKER BOARD (L)
	017 TD3-04A00	HEAT SINKER BOARD (R)
	019 TO-126	MICA SHEET TBM-51W-15 #9524
	019 TO-220	MICA SHEET TBM-51W-15 #9036
	019 TO-3P	MICA SHEET TBM-51W-15 #9043
Q851-855	032 C4137-V	TR 2SC4137-V
Q871-Q875, Q881-Q885	033 A1492-OPY	TR 2SA1492
Q861-Q865	033 A1667-OY	TR 2SA1667
Q866-Q870, Q876-Q880	033 C3856-OPY	TR 2SC3856
Q856-Q860	033 C-4381-OY	TR 2SC4381
CP851	034 436302122031	POSISTOR P43TD100BW20
CP125	063 B1009N80-5NNO	THERMAL SENSOR 80°C
OTHERS		
	011 FP-527B-B	BLACK PANEL ASSY
	011 FP-527B-S	SILVER PANEL ASSY
	011 TD3-01B00	H/S PANEL H176
	012 RV4-09A00	PUSH BUTTON 14F (BLACK)
	012 RV4-09A01	PUSH BUTTON 14F (SILVER)
	012 TB3-16A00	KNOB 44F NO MARK (BLACK)
	012 TB3-16A00S	KNOB 44F NO MARK (SILVER)
	012 TB3-17A00	KNOB 13F NO MARK (BLACK)
	012 TB3-17A00S	KNOB 13F NO MARK (SILVER)

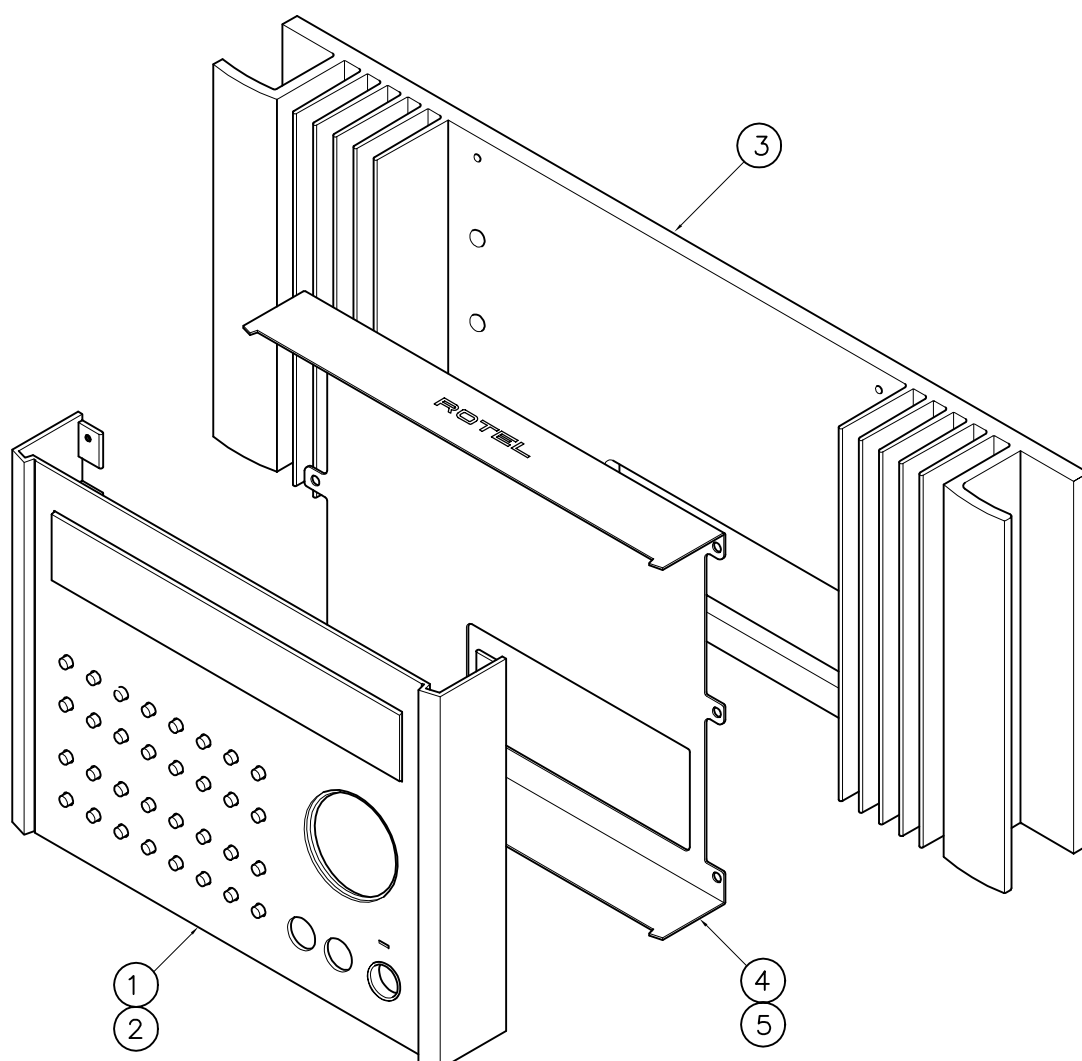
Parts List 9/9

SYMBOL	PARTS NO.	DESCRIPTION
	012 TB3-18A00	TACT BUTTON 16 KEY (BLACK)
	012 TB3-18A01	TACT BUTTON 16 KEY (SILVER)
	013 SG4-14D00	H/S PANEL SUPPORT(B)
	013 TD3-07B00	SUB PANEL CHASSIS (BLACK)
	013 TD3-07B01	SUB PANEL CHASSIS (SILVER)
	013 TD4-11A00	PANEL SIDE SUPPORT
	014 TD3-08A00	TOP COVER
	019 4TPK-17	P.T RUBBER 110F
	019 4TSH-19#2	PLASTIC FOOT 50F BLK
	019 C-4779A00	P.T RUBBER 121F 4T
	021 RLA166A00	AM LOOP ANT
	022 T-1080U02	MAIN POWER TRANSFORMER
	022 T-1082N03	SUB TRANSFORMER
	024 SE2408PTB1-0260	FAN MOTOR WITH CONNECTOR
	034 SEL1124R	LED (RED) 1X5
	034 SEL1E24W	LED (BLUE) 1X5
	069 C-4629A01	AC 2P INLET
	071 RE4-11A05	BOLT SCREW 8X95 MM
	072 4TR-3228	T TYPE ANTENNA
	072 C-4621A01	AC CORD SET SJT AWG16/2C
	072 C-4622A01	AC CORD SET AUSTRALIA
	072 C-4623A01	AC CORD SET U.K
	072 C-4624A01	AC CORD SET EUROPE
	072 C-4786A00	COMPUTER I/O CABLE(UPGRADE CABLE)
	081 TD4-22A00	INSIDE CARTON
	081 TD4-23A00	SHIPPING CARTON
	081 Z-206	STYROL MOULDING
	092 RR-1050	REMOTE UNIT

Addendum List for Black and Silver

RSX1065

SYMBOL	PARTS	DESCRIPTION
①	011 FP-527B-B	BLACK PANEL ASSY
②	011 FP-527B-S	SILVER PANEL ASSY
③	011 TD3-01B00	H/S PANEL H176
	012 RV4-09A00	PUSH BUTTON 14F (BLK)
	012 RV4-09A01	PUSH BUTTON 14F (SLV)
	012 TB3-16A00	KNOB 44F NO MARK (BLK) 8543000211
	012 TB3-16A00S	KNOB 44F NO MARK (SLV)
	012 TB3-17A00	KNOB 13F NO MARK (BLK) 8545000211
	012 TB3-17A00S	KNOB 13F NO MARK (SLV)
	012 TB3-18A00	TACT BUTTON 16 KEY (BLK)
	012 TB3-18A01	TACT BUTTON 16 KEY (SLV)
④	013 TD3-07B00	SUB PANEL CHASSIS (BLK)
⑤	013 TD3-07B01	SUB PANEL CHASSIS (SLV)
	034 SEL1124R	LED (RED) 1X5
	034 SEL1E24W	LED (BLU) 1X5



Tuner Adjustment Method

FM Section

* Necessary measurement equipment

RDS/STEREO Multiplexer, FM/AM Signal Generator, Audio Analyzer, Oscilloscope, Digital Volt Meter (DVM)

(A) Center adjust

RDS/STEREO Multiplexer Setting

- MODE : **MONO** - Audio Frequency : **1KHz**

FM Signal Generator Setting

- Deviation : **75KHz** - Radio Frequency : **98.1MHz** - Output Level : **66dB**

RSX1065 Setting

- FM Frequency : **97.9MHz** - FM MODE : **MONO**

1. Turn FM Signal Generator Modulation on
2. Connect DVM (+)(-) terminals to the each lead of the resistor R36 and measure the volt.
3. If measured voltage is not adjusted within $\pm 10\text{mV}$, Make this measured volt '**0**' by adjusting **FD1** (FM-DET-A Coil).
: **The adjustment should be within $\pm 10\text{mV}$**
4. After this adjustment, measure **THD**(Total Harmonic Distortion) with Audio Signal Generator
5. Adjust THD to minimum point with **FD2**(FM-DET-B Coil). : **THD should be within 0.5%**

(B) Channel Separation adjust

RDS/STEREO Multiplexer Setting

- MODE : **STEREO (ONLY L-CH Signal OUT)** - Audio Frequency : **1KHz**

FM Signal Generator Setting

- Deviation : **75KHz** - Radio Frequency : **98.1MHz** - Output Level : **66dB**

RSX1065 Setting

- FM Frequency : **97.9MHz** - FM MODE : **STEREO**

1. Turn FM Signal Generator Modulation on after **modulating only L-CH (or only R-CH)** at STEREO Multiplexer.
2. Confirm if '**STEREO**' indicator is **turned 'ON'** on the display
3. Measure output level via Audio Signal Analyzer and make the level as standard.
4. Turn FM Signal Generator Modulation on after **modulating only R-CH (or only L-CH)** at STEREO Multiplexer.
5. Measure output level via Audio Signal Analyzer (measure per a dB)
6. If measured output level is not lower than -40dB, Adjust output level to minimum position with **SVR3** (CH-SEPA. ADJ.).
: **lower than -40dB**

(C) TUNED Level adjust

RDS/STEREO Multiplexer Setting

- MODE : **STEREO** - Audio Frequency : **1KHz**

FM Signal Generator Setting

- Deviation : **75KHz** - Radio Frequency : **97.9MHz** - Output Level : **26dB**

RSX1065 Setting

- FM Frequency : **97.9MHz** - FM MODE : **STEREO**

1. Turn FM Signal Generator Modulation 'ON' (confirm if output level is **26dB**)
2. Change the output level of the Generator from 20dB to 30dB
and Confirm if 'STEREO' & 'TUNED' indicator of the DISPLAY turns on at 26db(± 5 dB)
3. If these indicators do not turn on at higher than 26dB(± 5 dB) or do not turn off at lower than 26(± 5 dB) ,
Adjust **SVR2 (FM-ADJ)** up to the moment where 'STEREO' & 'TUNED' indicator turns **OFF & ON** at 26dB.
4. Confirm if 'STEREO' & 'TUNED' turns OFF when decreasing the output level slowly from 26dB to 25dB, 24dB ~~~.
(Repeat the above 3. if not OFF in lower than 24dB.)
5. Push RSX-1065's TUNE UP or DOWN button "**long**" at Signal Generator Output Level 26dB and **start Auto search**.
Confirm if search **stops** at FM Frequency 97.9MHz.
(Examine both of High Freq. -> 97.9MHz search , Low Freq. -> 97.9MHz search)

AM Section

* Necessary measurement equipment :

AM Signal Generator, Audio Signal Analyzer, Dummy Load, Oscilloscope, Digital Volt Meter (DVM)

(A) VT adjust

AM Signal Generator Setting

1. Adjust AM Frequency of RSX-1065 to **522KHz. (or 520KHz)**
2. Connect (-) terminal of DVM with GND (or chassis) and connect (+) terminal with Jumper **JW14** (VT CHECK) and measure voltage. (**Low Freq. VT**)
3. IF not 1.1V~1.3V, Adjust VT to 1.2V with **RF BLOCK RED COIL** (AM-OSC Coil).

* In case of **USA version**, AM freq. range is **520KHz ~ 1710KHz**. So, adjust as below.
at 520KHz, VT = 1.2V (Low Freq. VT)

(B) Output Level adjust

AM Signal Generator Setting

- Modulation : **30%**
- Audio Frequency : **400Hz**
- Radio Frequency : **603KHz (or 600KHz)**
- Output Level : **100dB**

RSX-1065 Setting

- AM Frequency : **603KHz (or 600KHz)**

1. Turn AM Signal Generator Modulation ON
2. Adjust RSX-1065 AM Freq. to **603KHz (or 600KHz)** and measure output level with Audio Signal analyzer.
3. If it is lower than 200mV , Adjust output level to maximum point with **RF BLOCK BLACK COIL** (AM-ANT).
(**recommand higher than 250mV**)
4. Set Generator' RF & RSX1065's RF to 999kHz(or 1000kHz) and measure output level with Audio Signal analyzer.
Adjust output level to maximum point with **IF BLOCK YELLOW COIL**

(C) TUNED Level adjust

AM Signal Generator Setting

- Modulation : **30%**
- Audio Frequency : **400Hz**
- Radio Frequency : **999KHz (or 1000KHz)**
- Output Level : **84dB**

RSX-1065 Setting

- AM Frequency : **999KHz (or 1000KHz)**

1. Turn AM Signal Generator Modulation ON (Make sure if Output level is **84dB**)
2. If 'TUNED' indicator does not turn on at higher than 80~86dB(Generator output),
Adjust **SVR01** (AM-ADJ) up to the moment where 'TUNED' indicator turns OFF & ON again
3. Confirm if 'TUNED' turns OFF when decreasing the output level of AM Signal Generator slowly from 84dB to 80dB.
4. Push RSX-1065 **TUNE UP or DOWN** button "**long**" at AM Signal Generator Output Level 84dB and **start AUTO search**.
Confirm if search **stops** at AM Frequency 999KHz (or 1000KHz).
< Check with both of High Freq. -> 999KHz(or 1000KHz) search , Low Freq. -> 999KHz(or 1000KHz) search >

Power Amplifier Idling Adjustment Method

* Necessary measurement equipment :

Digital Volt Meter (DVM)

After warm-up the Heat-Sinker (approx. 30 centigrade degree)

1. Connect the terminal of DVM to each TP points of the TP801 to TP805 on the Amplifier 2 PCB 016 X-1311A00.
2. Adjust each time Semi-Fixed VR of VR801 to VR805 on the Amplifier 1 PCB 016 X-1311A00. **Adjust to DC4 mV.**

Procedure of RSX-1065 software upgrade

*Note : This procedure is made by translation of Windows 98 version. So some of menu or option name may not be matched with some versions of Windows 98.

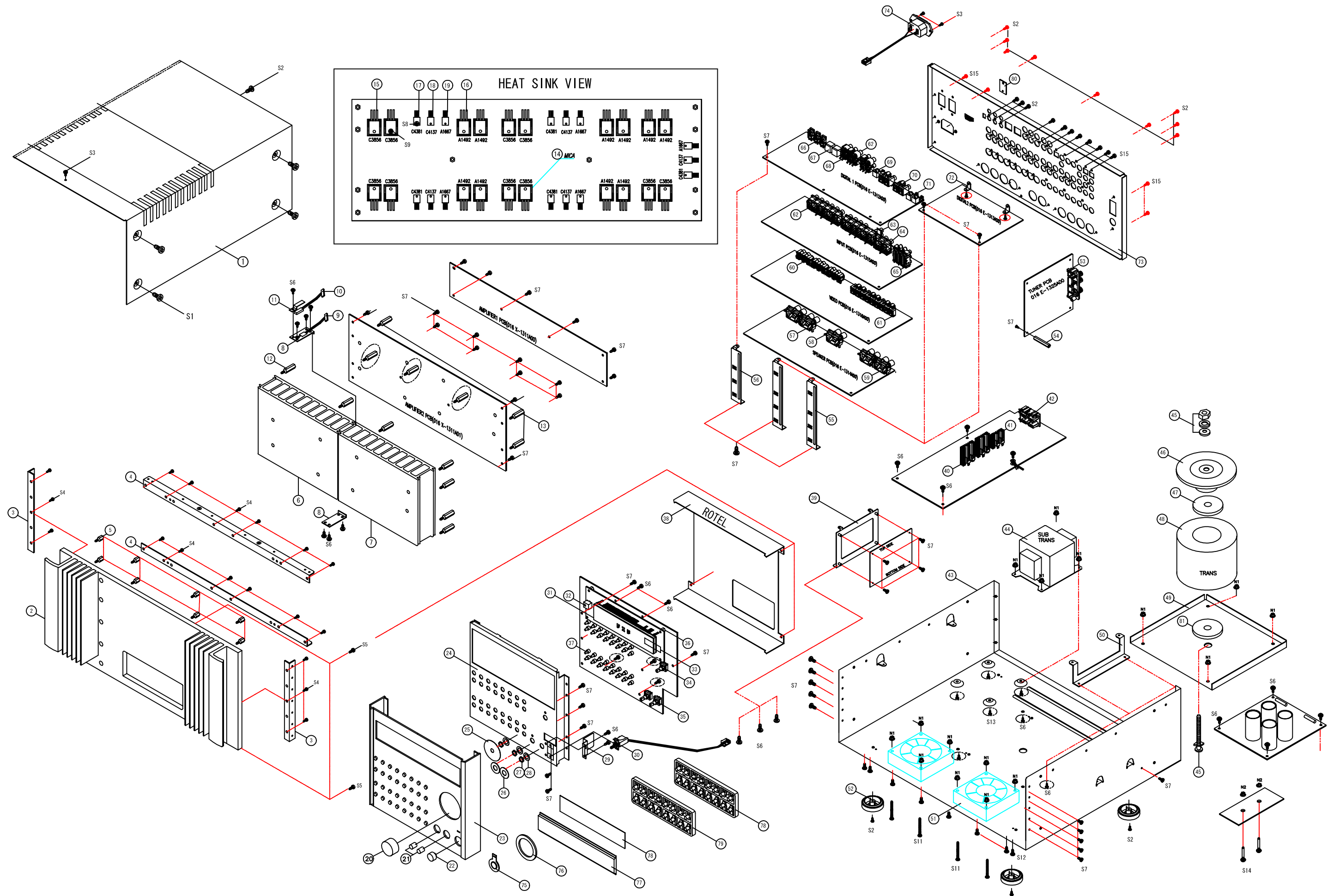
First of all, User should have the new software file (via internet download) before preceding the software up-grade process.

1. Power RSX-1065 off.
2. Remove all of connections between RSX-1065 and other equipments.
3. Connect RSX-1065 and PC with RJ45/DB9 cable. RJ45 jack should be connected to COMOUTER I/O port in RSX-1065 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 RSX-1065 rear panel.
5. Open HyperTerminal program in Windows 98 (Program / Supplement Program / Communication / HyperTerminal)
6. Input name and select icon to use for connection in connection explanation dialogue box and click O.K.
7. Connection object dialogue box appears. Select modem(N) to use for connection. For example, if DB9 cable is connected to COM1 serial port of PC, select COM1.
8. Selected serial port registration dialogue box appears. Select value or option per item as follows.
 - *Bit per second (B) : 19200
 - *Data Bit (D) : 8
 - *Parity (P) : None
 - *Stop Bit (S) : 1
 - *Flow Control (F) : None
 - *And click O.K.
9. Click File (F) and click Property (R) in file menu of HyperTerminal.
10. Select setup.
11. In set up dialogue box, select options per item as follows.
 - *Function Key : Terminal Key(T)
 - *Backspace function: Ctr+H(C)
 - *Emulation: VT100
 - *Telnet Terminal: VT100
 - *Back scroll buffer line : 500
 - *And click ASCII Setup (A)
 - *Select (A) & (W) at ASCII receiving section, Click O.K
 - *Click O.K
12. Power RSX-1065 on and then options message appears in HyperTerminal screen. In the message, select number 1. Erase of current software begins.
13. When erasing finishes, download file message appears. Select Text file sending (T) in Transmission menu (T) of HyperTerminal and text file sending dialogue box appears.
14. Change the finding file format from (*.TXT) to (*.*) format, and find the new software which is for up-date.(*. Bin) format.
15. Double-click new software file. The extension of software file name is bin (ex. xxx.bin). Then software upgrade begins.
16. When the upgrade finishes, check message appears. In the message, compare received data checksum with rom checksum. If they are same, the upgrade is done correctly.
17. Power RSX-1065 off and switch up the SOFTWARE UPGRADABLE key to Off in the rear panel.
18. Disconnect the cable between PC and the RSX-1065.
19. Power RSP-1066 on and set the default setting on the OSD screen menu with connecting a TV monitor. And confirm if the software version is upgraded.

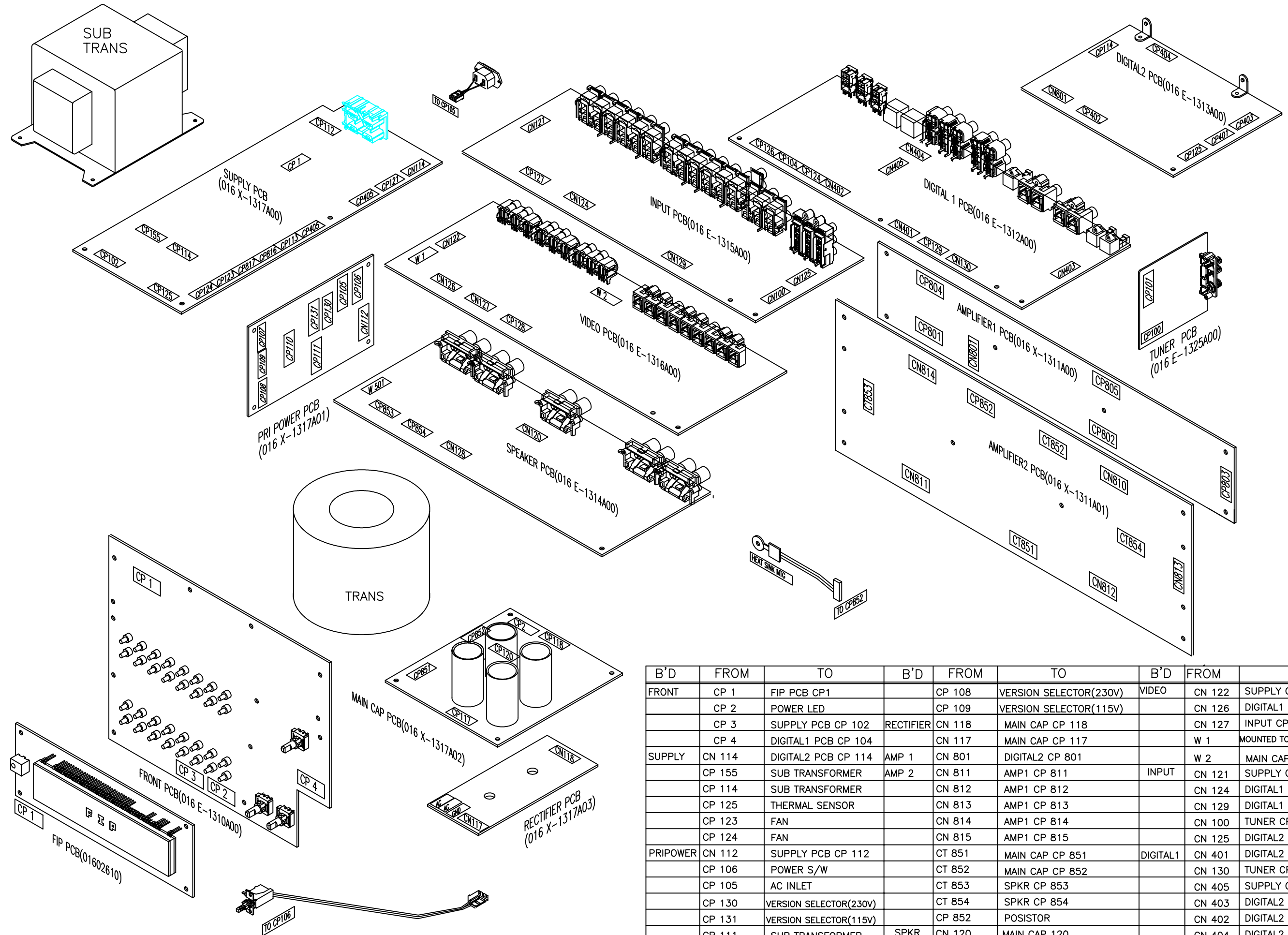
Disassembly List

NO.	PARTS NO.	DESCRIPTION	NO.	PARTS NO.	DESCRIPTION
1	014 TD3-08A00	UPPER COVER	51	024 SE2408PTB1-0260	FAN
2	011 TD3-01B00	H/S PANEL	52	019 4TSH-19#2	FOOT
3	013 TD4-11A00	SUPPORT SIDE (2EA)	53	016 E-1325A00	TUNER PCB
4	013 SG4-14D00	SUPPORT B (2EA)	54	071 4TVL-7#12	CYLINDER BUSH H=35
5	071 4TVL-8#7	KARA SCREW (8EA)	55	013 TD3-15A00	PCB SUPPORT-A(2EA)
6	017 TD3-03A00	H/S BOARD 'L'	56	013 TD3-16A00	PCB SUPPORT-B
7	017 TD3-04A00	H/S BORAD 'R'	57	067 C-4493A00	S/P TER 4P R,B,B,R
8	013 TD4-10A00	SUPPORT H/S (2EA)	58	067 4TR-3222#1	S/P TER 2P
9	034 436302122031	POSISTOER	59	067 C-4493A01	S/P TER 4P BU,BK,BK,BU
10	034 OP 62-80-5	THERMAL SENSOR	60	066 4TR-2964#10	RCA JACK 3P(Y), VIDEO
11	013 TD4-20A00	SENSOR BKT	61	066 C-4604A02	RCA JACK 3P, S-VHS
12	071 4TVL-8#4	KARA SCREW (10EA)	62		RCA JACK 6P(WWW,RRR)
13	071 4TVL-8#10	KARA SCREW (6EA)	63		RCA JACK 3P(B,B,B)
14	019 TO 3P	MICA	64		RCA JACK 4P(WW,RR)
15	033 C3856-OPY	TR (10EA)	65		RCA JACK 9P(G,B,R)
16	033 A1492-OPY	TR (10EA)	66		JACK 2P(B,B)
17	033 C4381-OY	TR (5EA)	67	066 SY010-8P/K	RJ 45
18	C 4137	TR (5EA)	68		RCA JACK 4P(BB,BB)
19	033 A1667-OY	TR (5EA)	69		DIGITAL OPTICAL OUT
20	012 TB3-16A00	KNOB 44F	70		RCA JACK 2P(B,B)
21	012 TB3-17A00	KNOB 13F(2EA)	71		DIGITAL OPTICAL INPUT
22	012 RV4-09A00	PUSH BUTTON	72	013 4TTU-13	SUPPORT PCB(2EA)
23	011 FP-527	SUB PANEL	73	015 RP-377	REAR CHASSIS
24	015 TD3-06A00	FRONT CH'	74	069 C-4629A01	AC IN LET
25	019 4TR-1083B#7	FELT 51FX9F	75	019 RV4-10A00	POWER BUTTON RING
26	019 4TR 1083B#6	FELT 20FX9F(2EA)	76	019 C-4754A00	KNOB RING
27	070 KN9ZK	NUT (3EA)	77	014 4TQS-7#9	PANEL WINDOW
28	070 W9NI	WASHER (3EA)	78	014 C-4462A09	FILTER BORAD
29	019 TD4-14A00	INSULATION SHEET	79	012 TB3-18A00	TACT BUTTON 16KEY(2EA)
30	061C-4176A08	POWER S/W	80	013 TD4-12A00	SERVICE MASK BORAD
31	035 HNR22ML02	FIP	81	019 C-4779A00	PT RUBBER 121F(75inF)
32	031 SBX3010-52B	REMOTE SENSOR			
33		SPONGE	SCREW		
34	056 C-4678A01	VR MAIN	S1	071 WB4X8BK	
35	056 C-4678A02	VR TONE (2EA)	S2	071 BTV3X8BK	
36	071 4tv-7#23	CYLINDER BUSH(4EA)	S3	071 MO3X8BK	
37	061 C-4679A01	TACT S/W	S4	071 MB4X8NI	
38	013 TD3-07A00	HOLDER SUB PANEL	S5	071 NSM3X16ZK	
39	013 TD3-17A00	SUPPLY PCB BRACKET	S6	071 BTV3X8NI	
40	017 C-4682A03	REG TR H/S H=60(2EA)	S7	071 MB3X6NI	
41	017 C-4682A02	REG TR H/S H=45	S8	07' NSM3X 0ZK	
42	069 C-4372A00	AC OUT LET 2P	S9	071 NSM3X12ZK	
43	018 TD3-09A00	BODY CH'	S10	071 MB3X6NI	
44	022 T-1082N03	SUB PT EI	S11	071 NSM4X30NI	Fix FAN
45	071 RE4-11A05	SCREW BOLT KIT	S12	071 NSM3X6ZK	
46	013 RE4-07A02	PT SUPPORT	S13	071 NSM4X8NI	
47	019 4TPK-17	PT RUBBER 110F	S14	071 CTB4X20NI	
48	022 T-1080U02	SUB TRANSFORMER EI	S15	071 PTV3X8BK	
49	013 RV4-08B00	PT SUPPORT			
50	013 TD4-18A00	CE PCB SUPPORT			

Disassembly Diagram

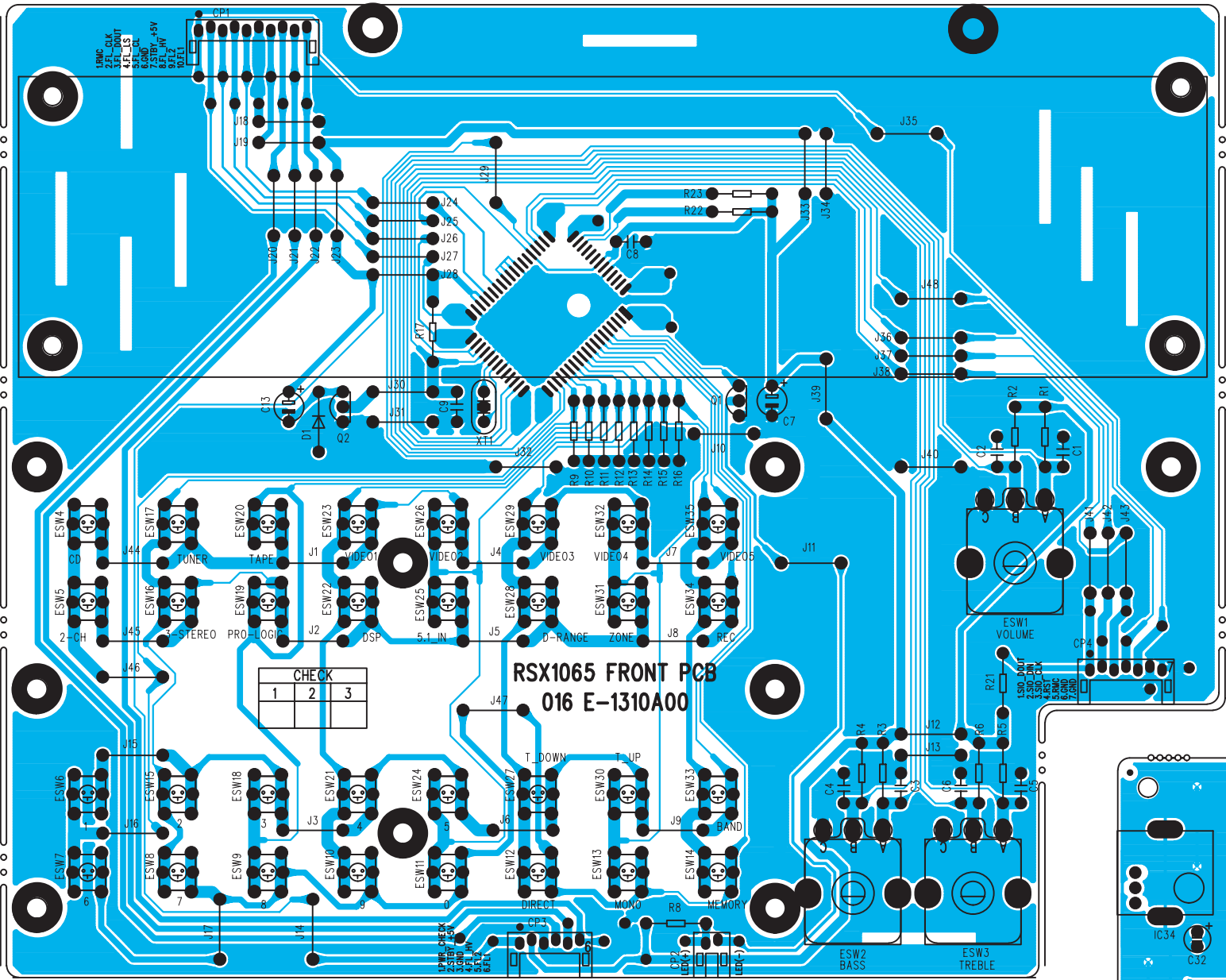


Wiring Diagram

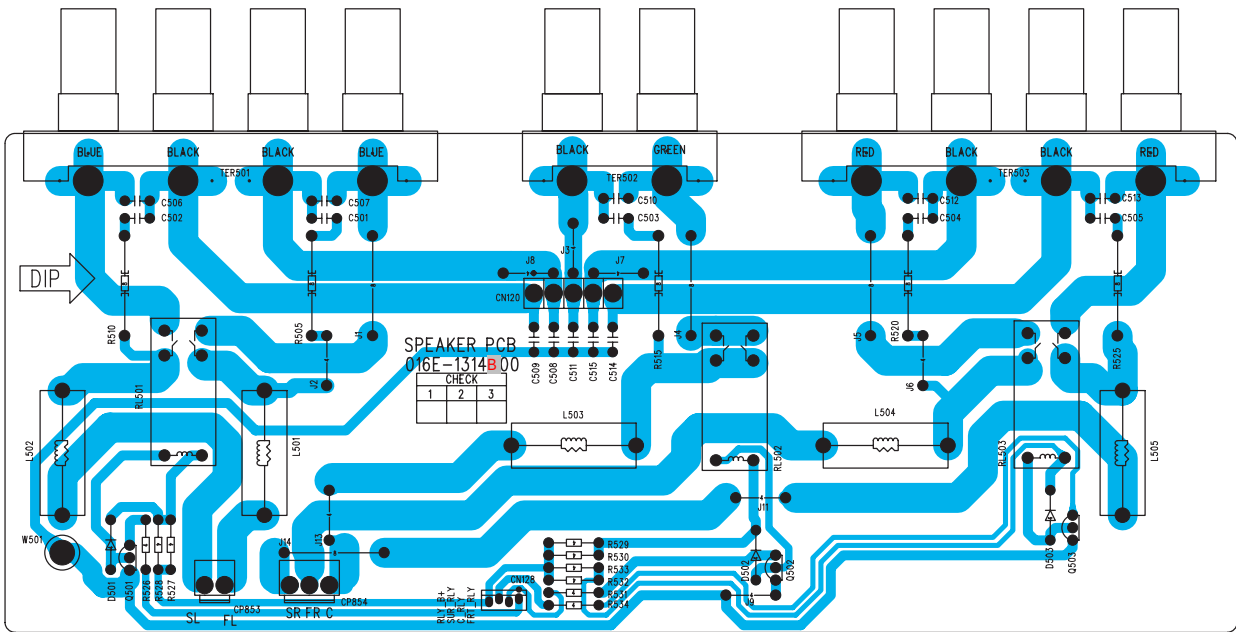


B'D	FROM	TO	B'D	FROM	TO	B'D	FROM	TO
FRONT	CP 1	FIP PCB CP1		CP 108	VERSION SELECTOR(230V)	VIDEO	CN 122	SUPPLY CP 122
	CP 2	POWER LED		CP 109	VERSION SELECTOR(115V)		CN 126	DIGITAL1 CP 127
	CP 3	SUPPLY PCB CP 102	RECTIFIER	CN 118	MAIN CAP CP 118		CN 127	INPUT CP 127
	CP 4	DIGITAL1 PCB CP 104		CN 117	MAIN CAP CP 117		W 1	MOUNTED TO PRI POWER CHASSIS
SUPPLY	CN 114	DIGITAL2 PCB CP 114	AMP 1	CN 801	DIGITAL2 CP 801		W 2	MAIN CAP CP 2
	CP 155	SUB TRANSFORMER	AMP 2	CN 811	AMP1 CP 811	INPUT	CN 121	SUPPLY CP 121
	CP 114	SUB TRANSFORMER		CN 812	AMP1 CP 812		CN 124	DIGITAL1 CP 124
	CP 125	THERMAL SENSOR		CN 813	AMP1 CP 813		CN 129	DIGITAL1 CP 129
	CP 123	FAN		CN 814	AMP1 CP 814		CN 100	TUNER CP 100
	CP 124	FAN		CN 815	AMP1 CP 815		CN 125	DIGITAL2 CP 125
PRIPOWER	CN 112	SUPPLY PCB CP 112		CT 851	MAIN CAP CP 851	DIGITAL1	CN 401	DIGITAL2 CP 401
	CP 106	POWER S/W		CT 852	MAIN CAP CP 852		CN 130	TUNER CP 130
	CP 105	AC INLET		CT 853	SPKR CP 853		CN 405	SUPPLY CP 405
	CP 130	VERSION SELECTOR(230V)		CT 854	SPKR CP 854		CN 403	DIGITAL2 CP 403
	CP 131	VERSION SELECTOR(115V)		CP 852	POSISTOR		CN 402	DIGITAL2 CP 402
	CP 111	SUB TRANSFORMER	SPKR	CN 120	MAIN CAP 120		CN 404	DIGITAL2 CP 404
	CP 110	MAIN TRANSFORMER		CN 128	VIDEO CP128	DIGITAL2	CN 801	SUPPLY CP 1
	CP 107	VERSION SELECTOR(115V)		W 501	MOUNTED TO PRI POWER CHASSIS			

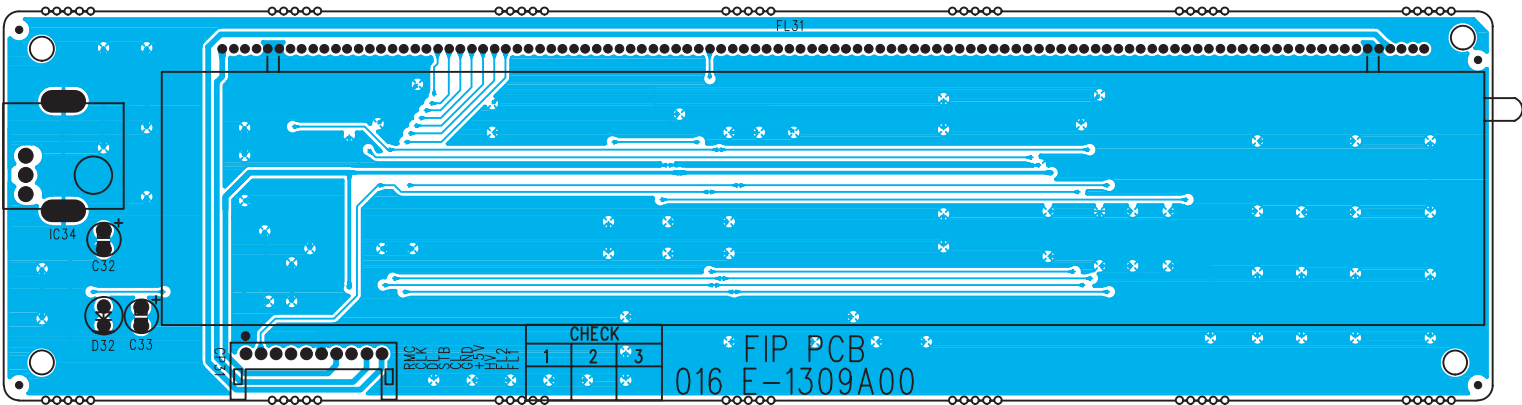
Front PCB 016 E-1310A00



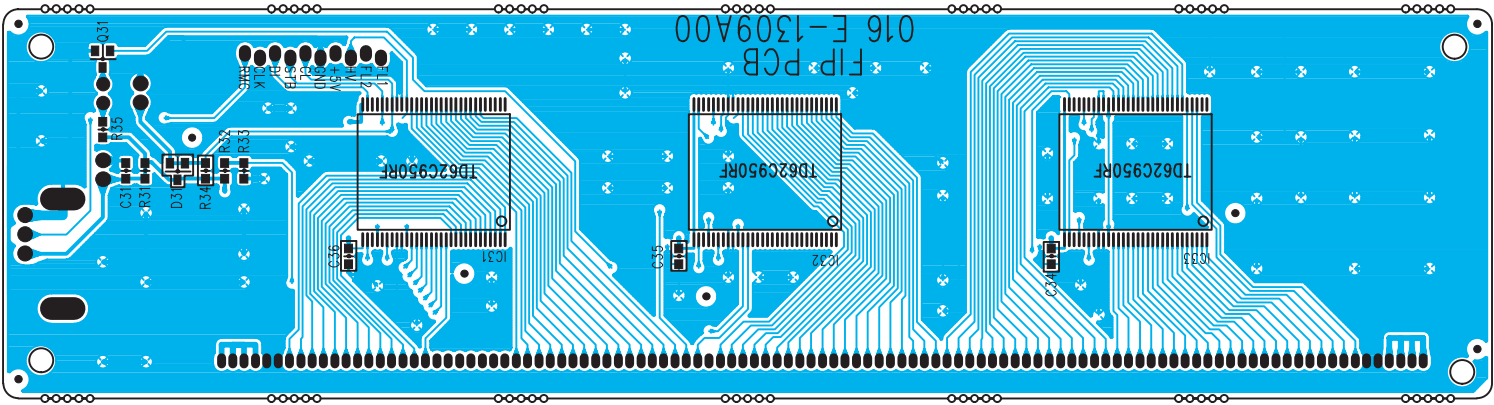
Speaker Terminal PCB 016 E-1314B00



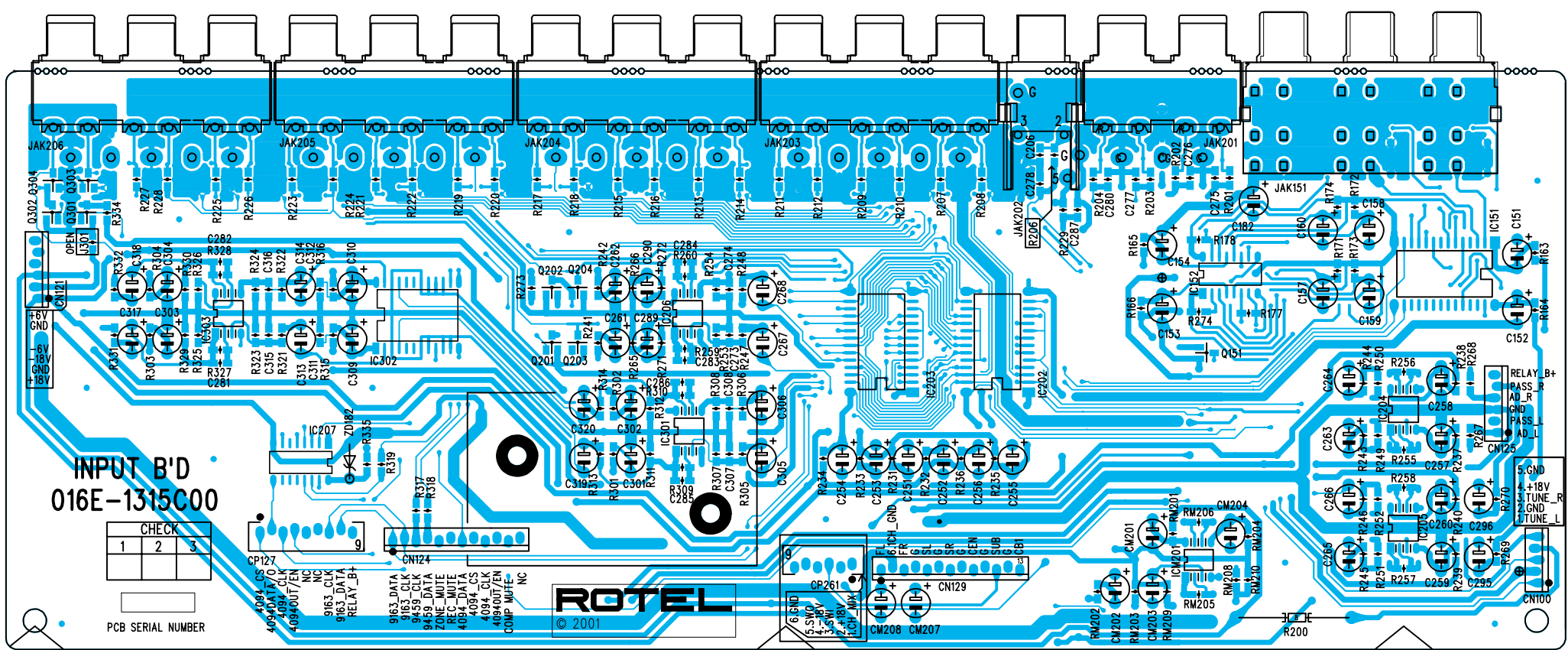
FIP PCB 016 E-1309A00 Top side view



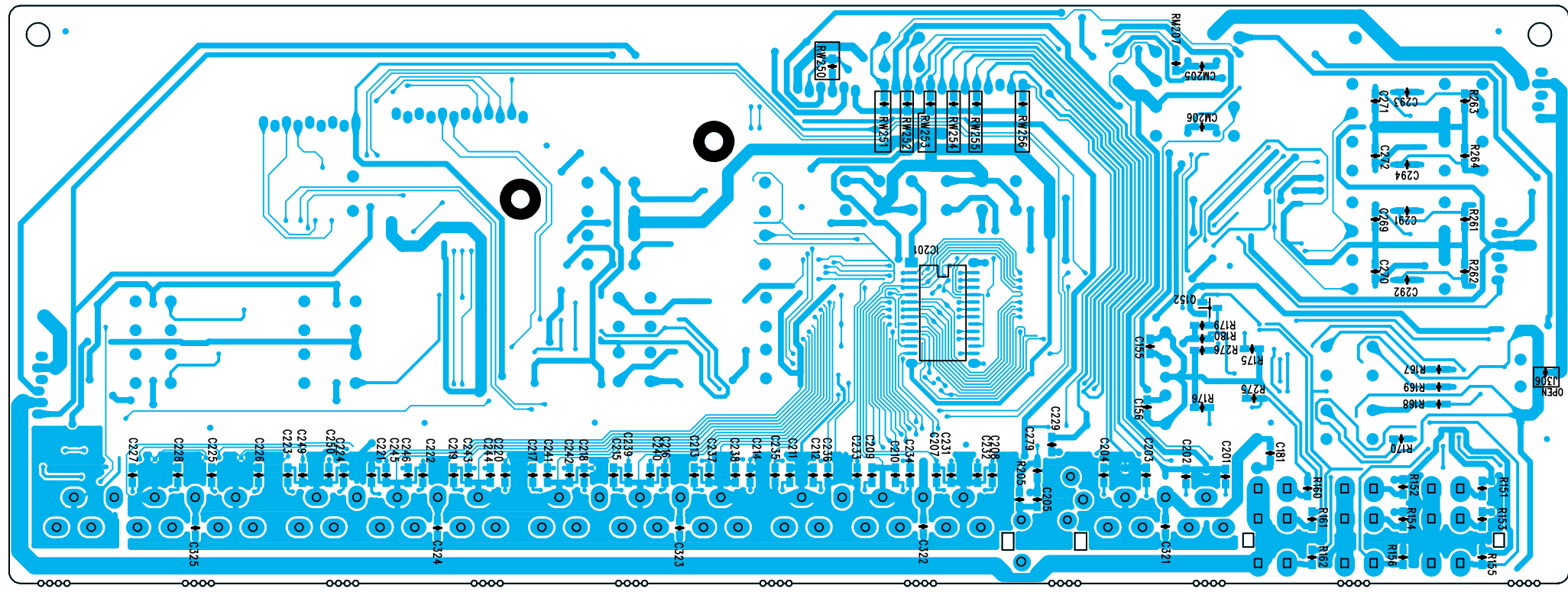
FIP PCB 016 E-1309A00 Bottom view



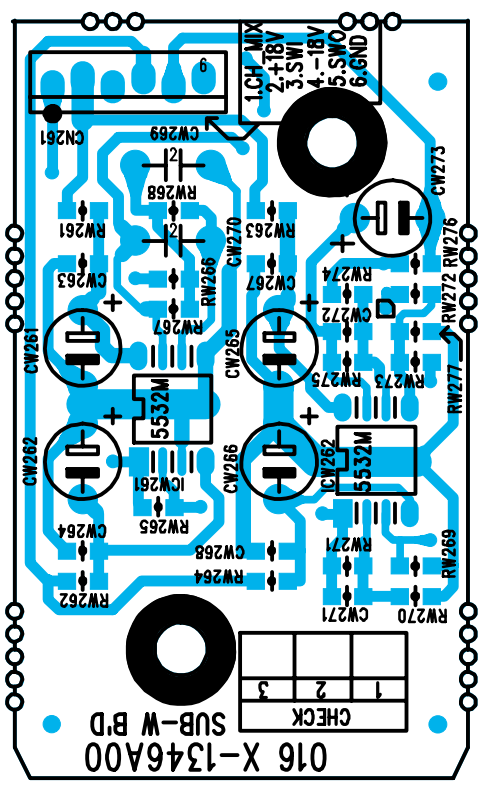
016E-1315C00 Top View



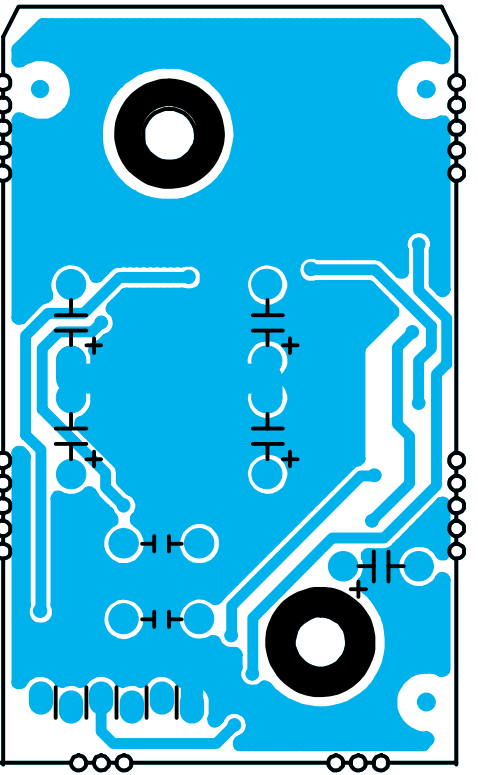
016E-1315C00 Bottom View



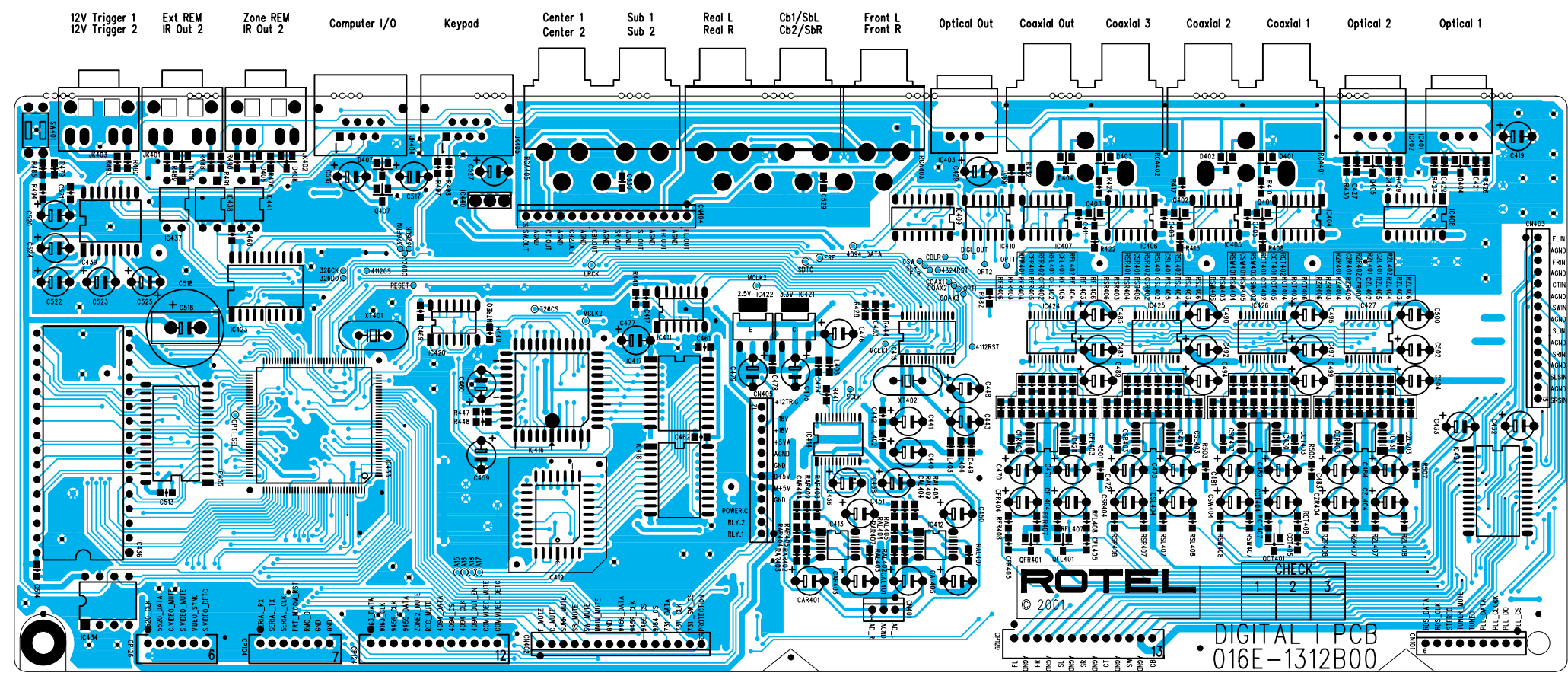
016X-1346A00 Top View



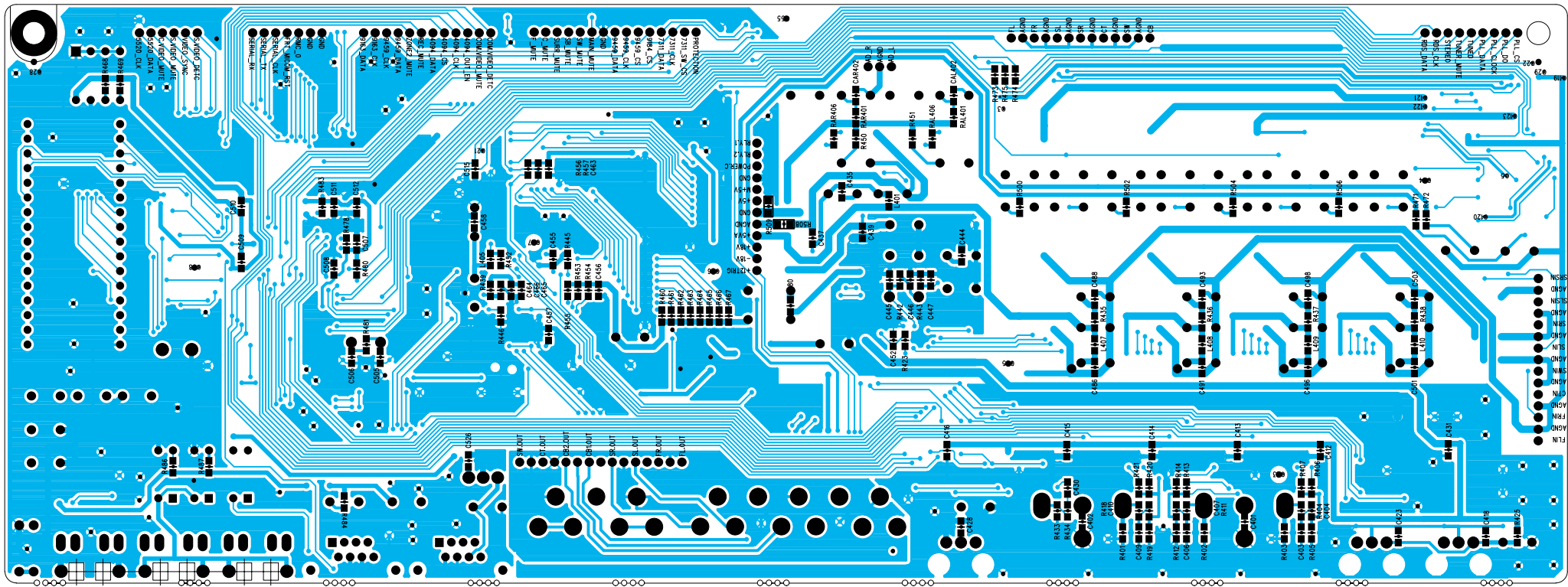
Bottom View



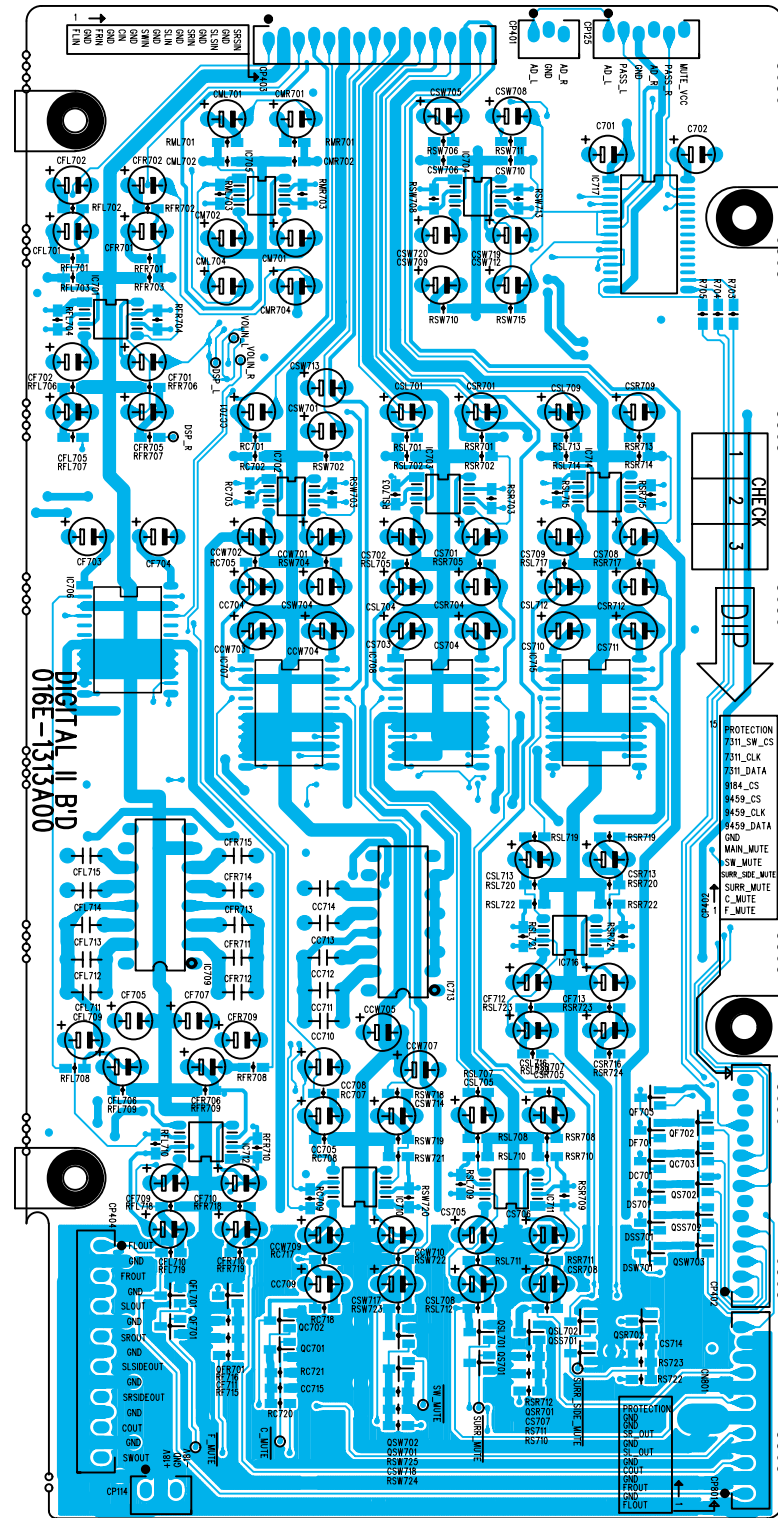
Top View



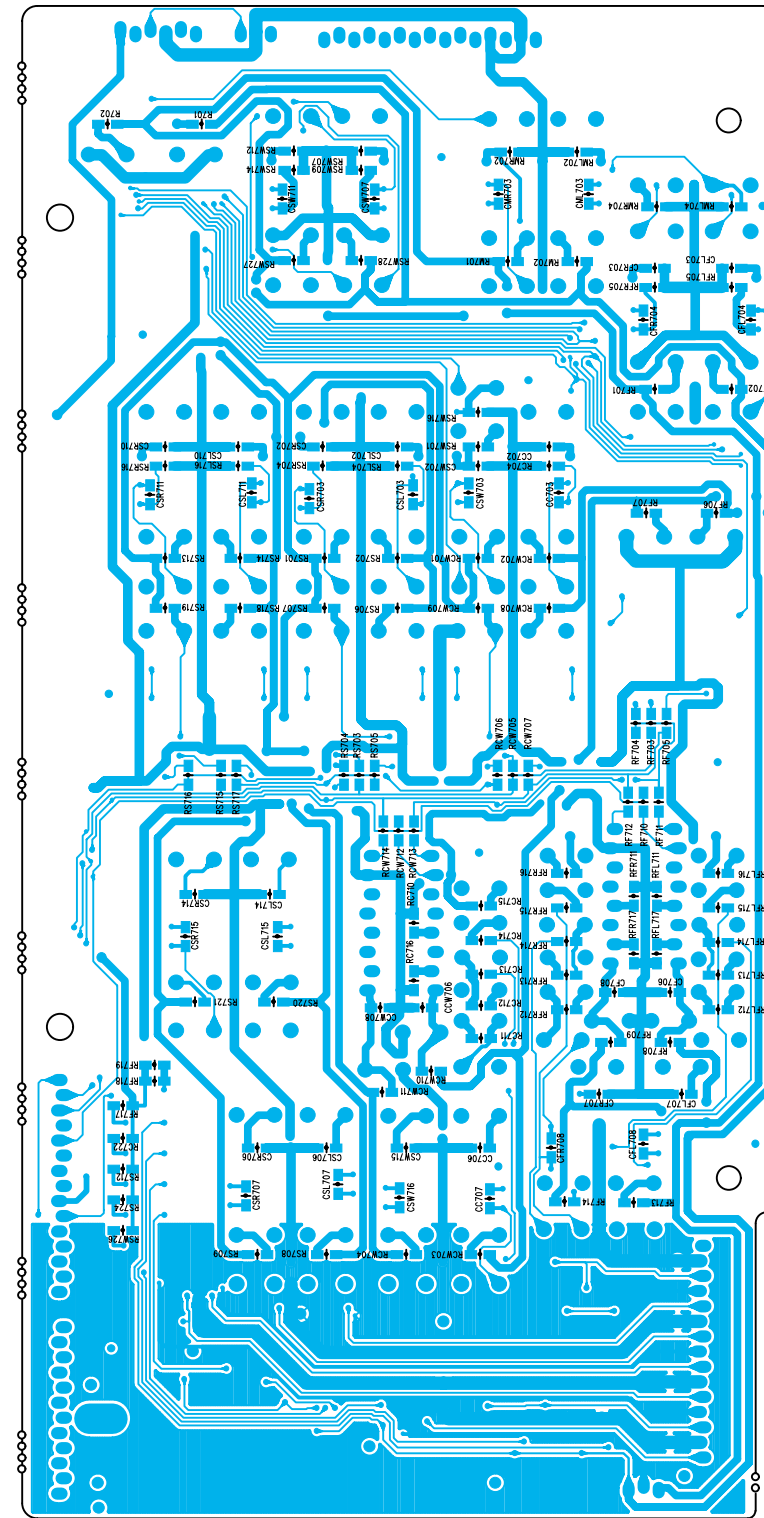
Bottom View



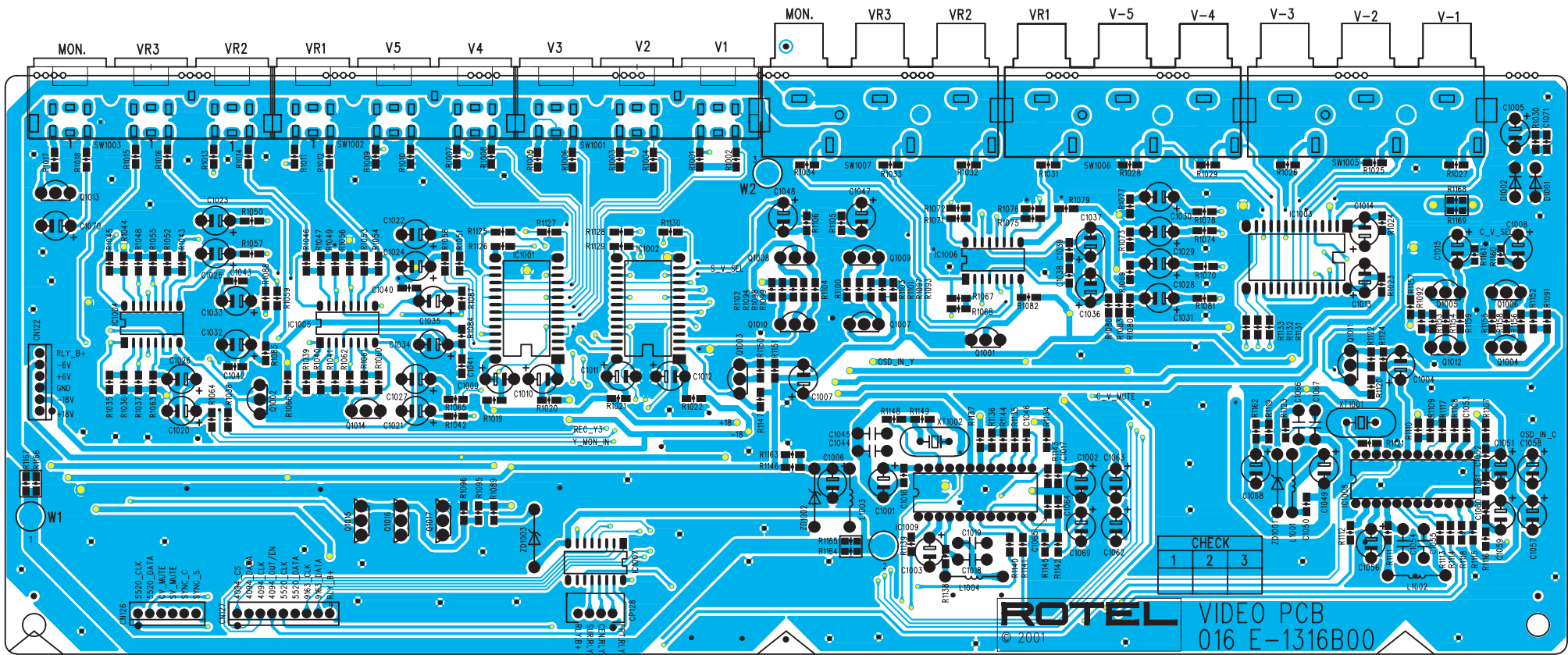
Digital Board - 2 Top View



Digital Board - 2 Bottom View

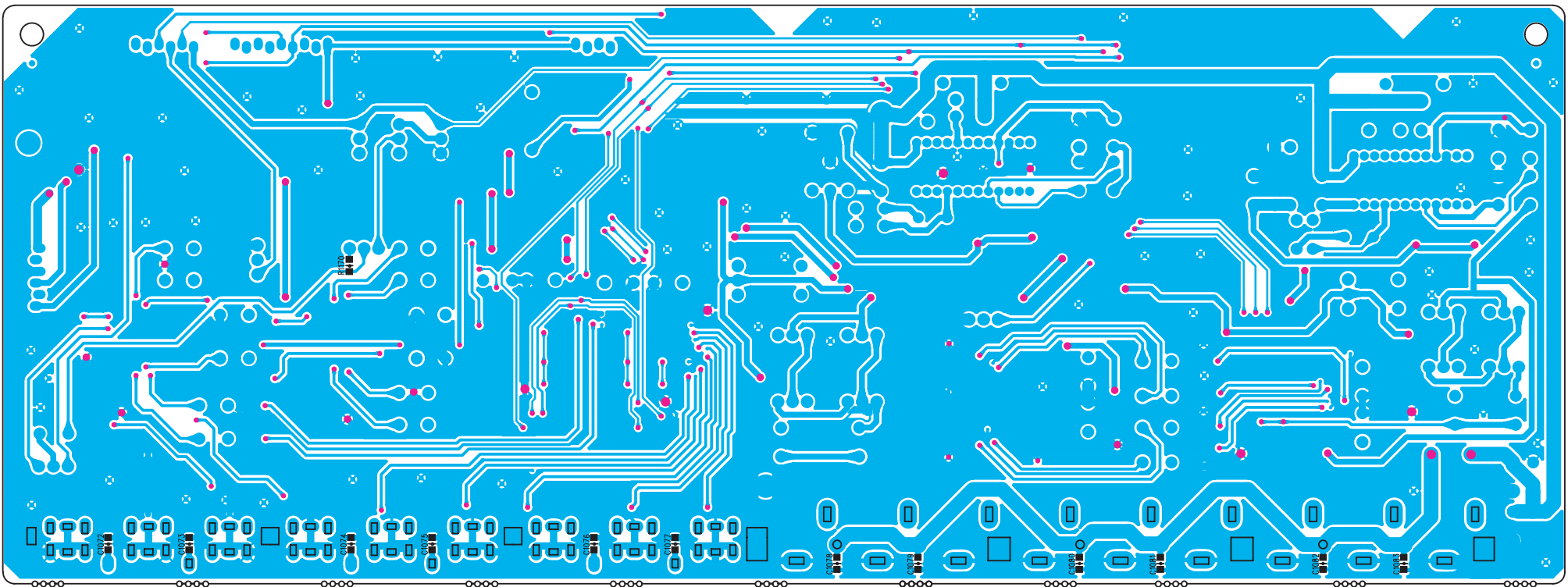


Top View



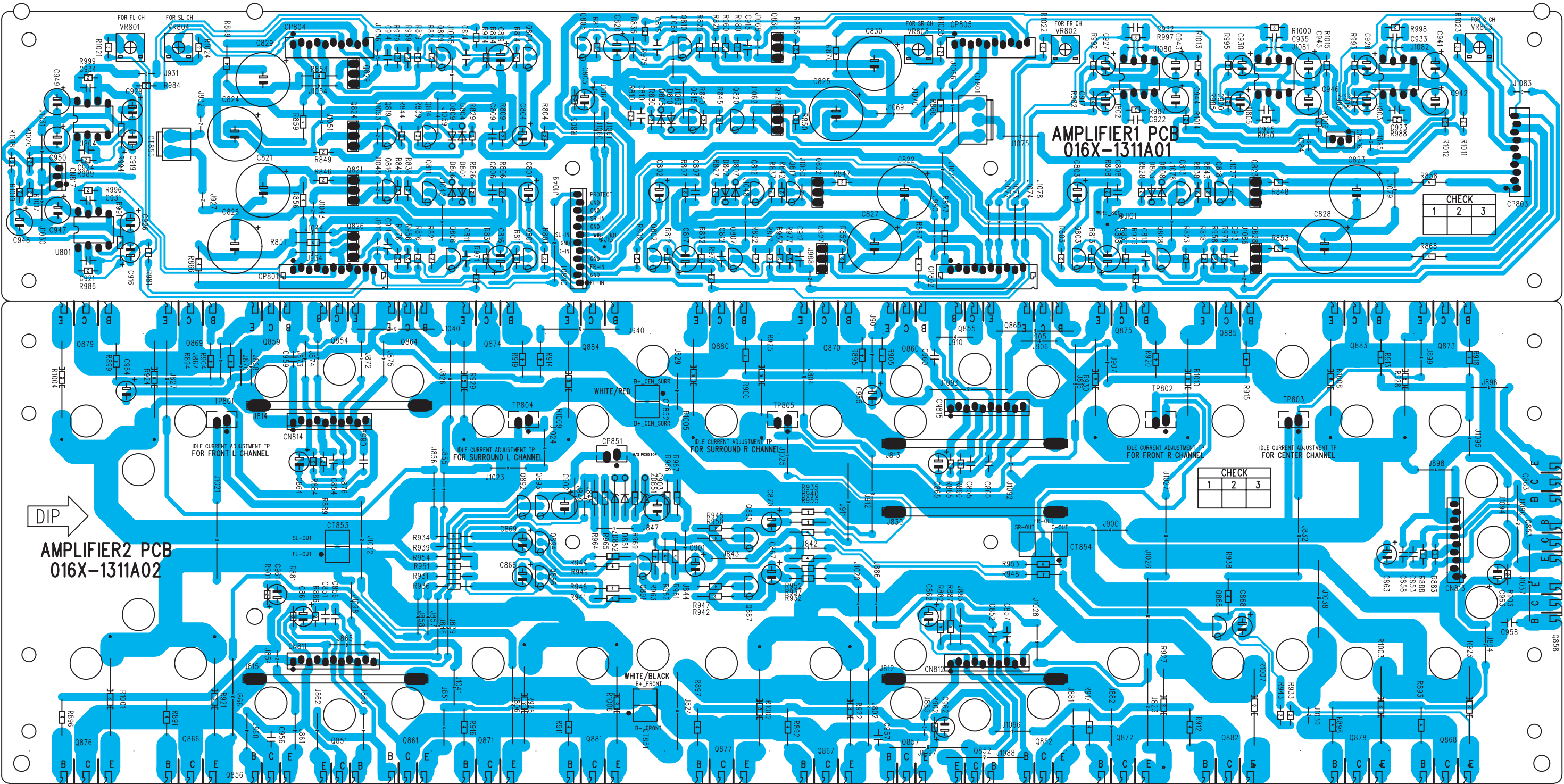
Moved parts: R1116, C1060

Bottom View

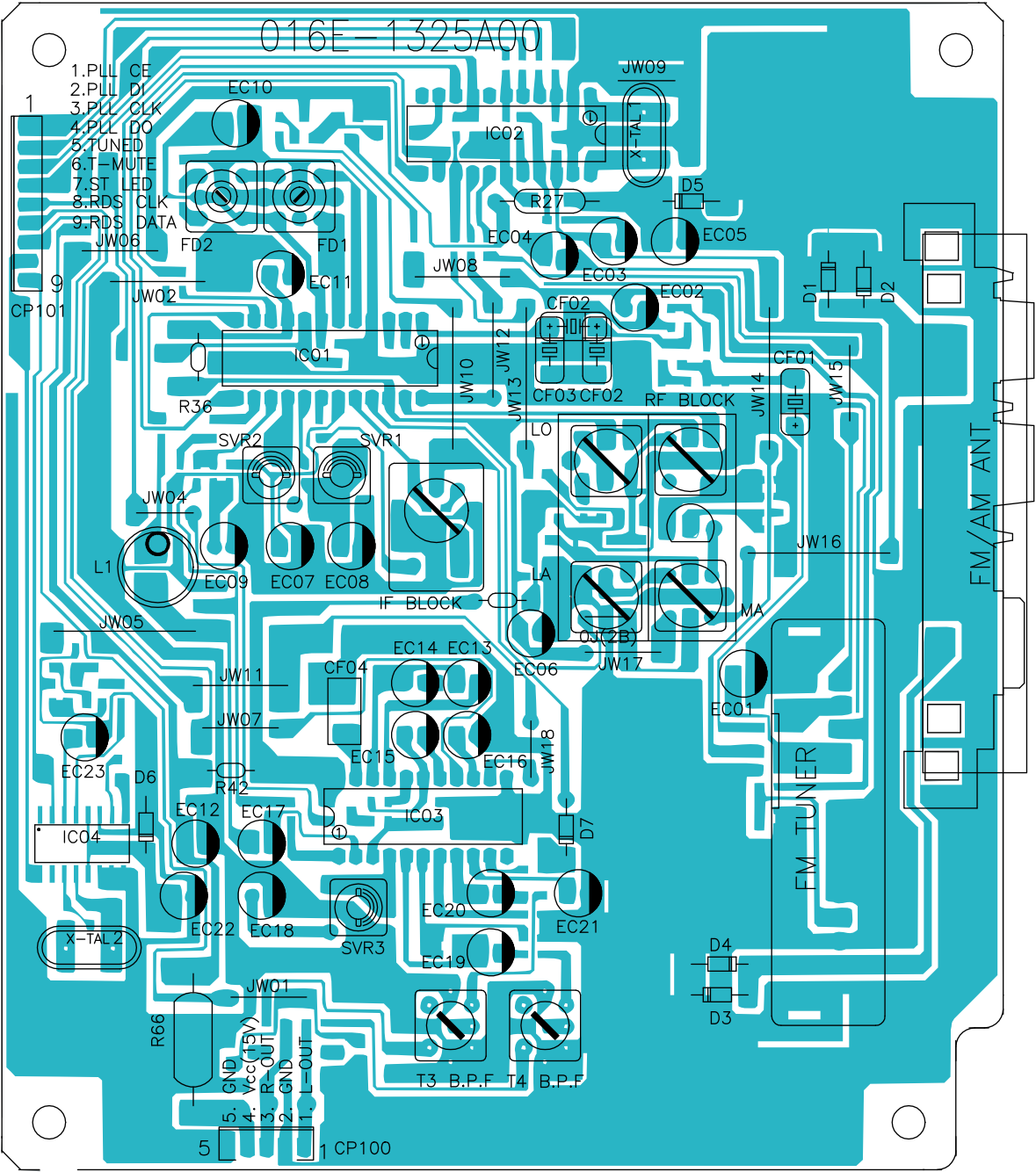


Added parts C1072 ~ C1083,R1170

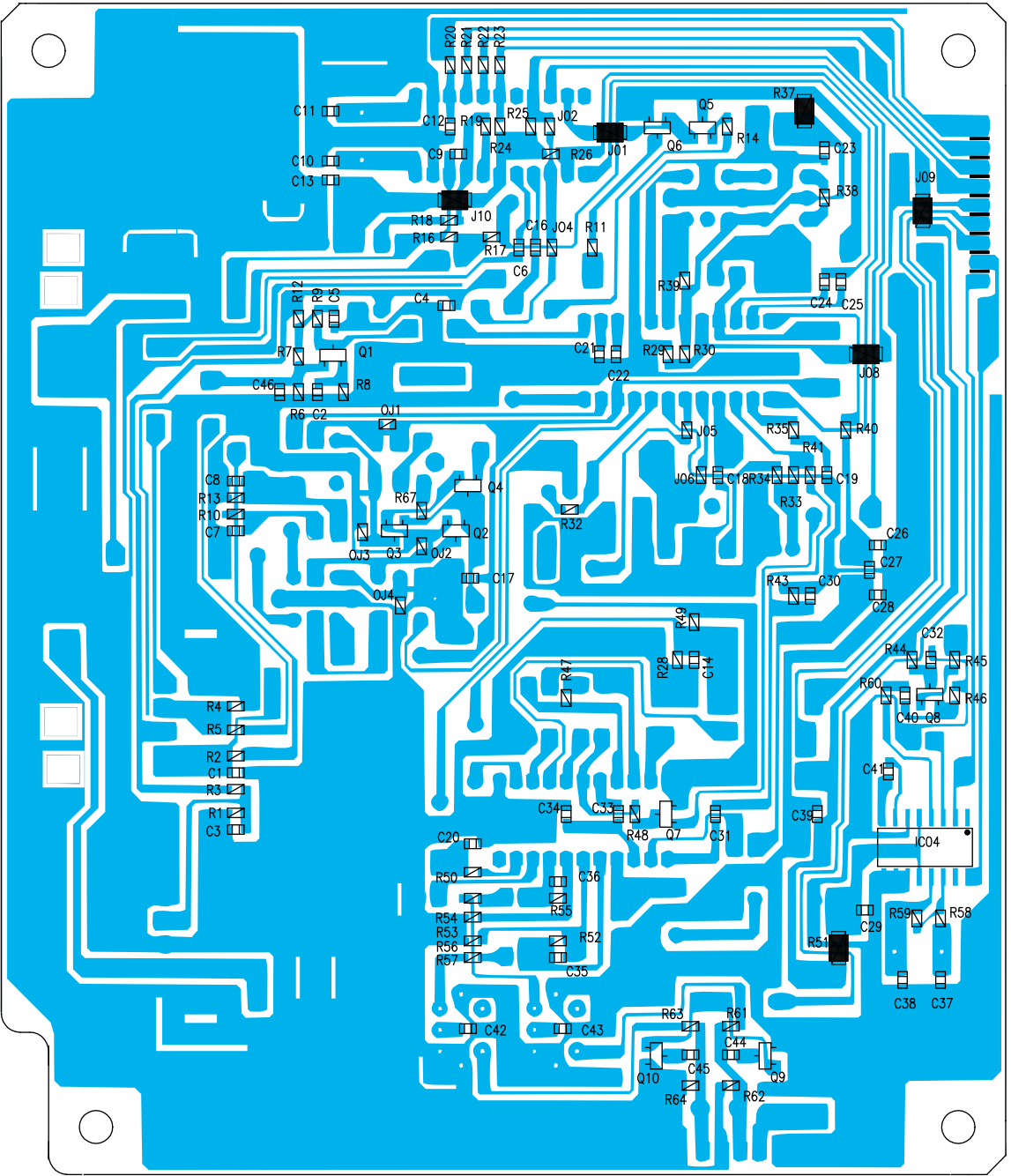
Amplifier PCB 016 X-1311A01-02



Tuner PCB 016 E-1325A00 Top Side View

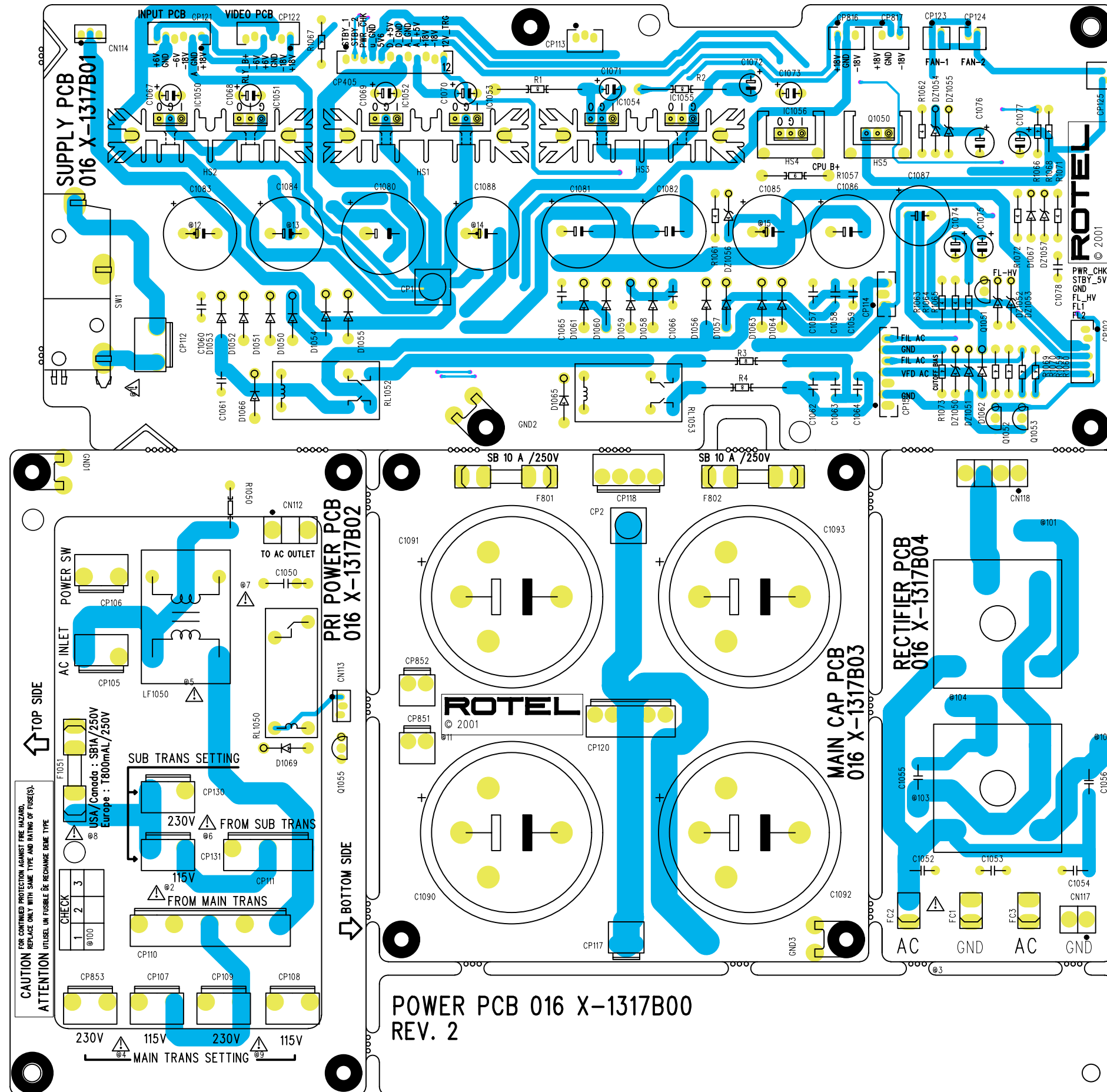


Tuner PCB Bottom View



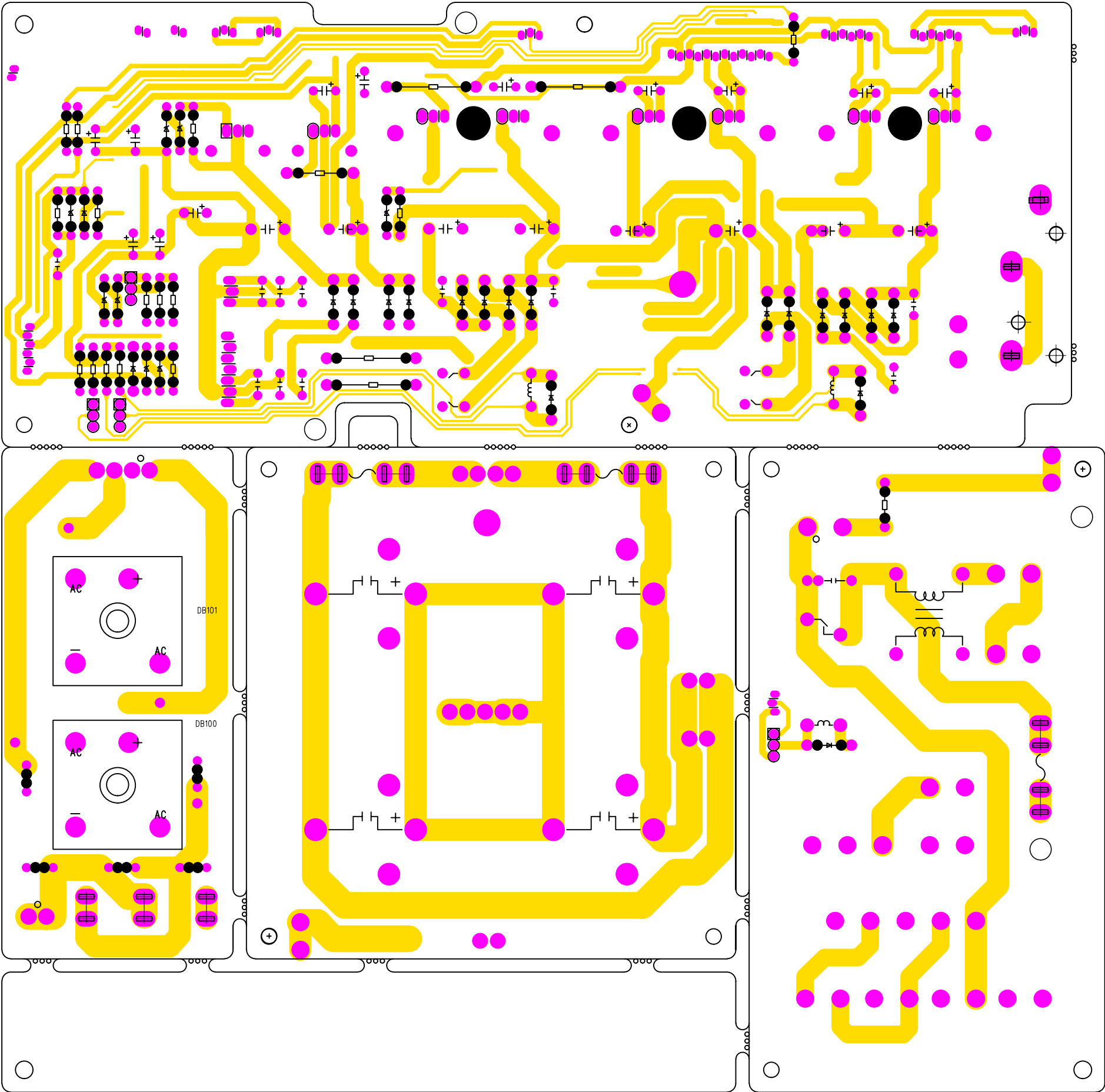
Power Supply PCB 016 X-1317B01-04

Top View

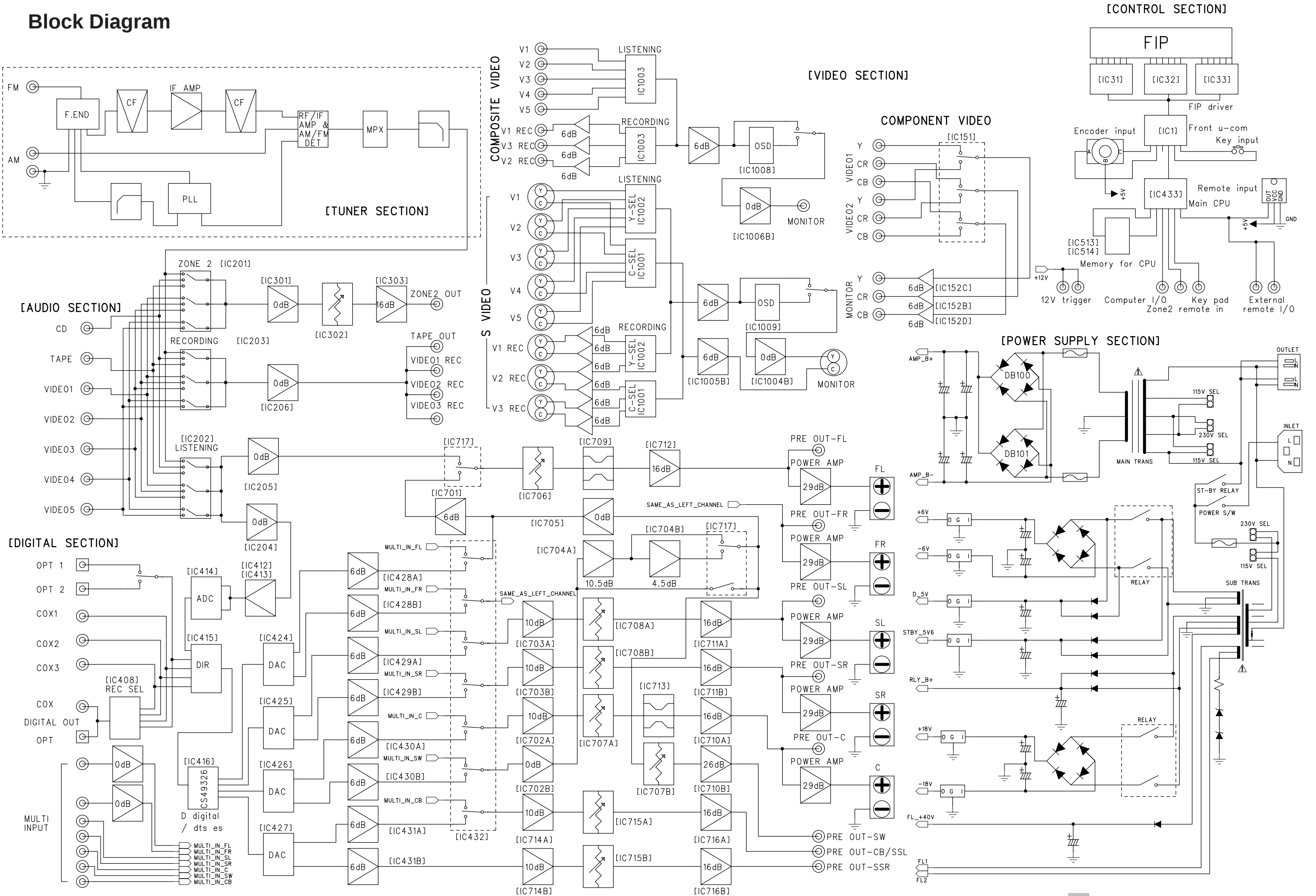


Power Supply PCB 016 X-1317B01-04

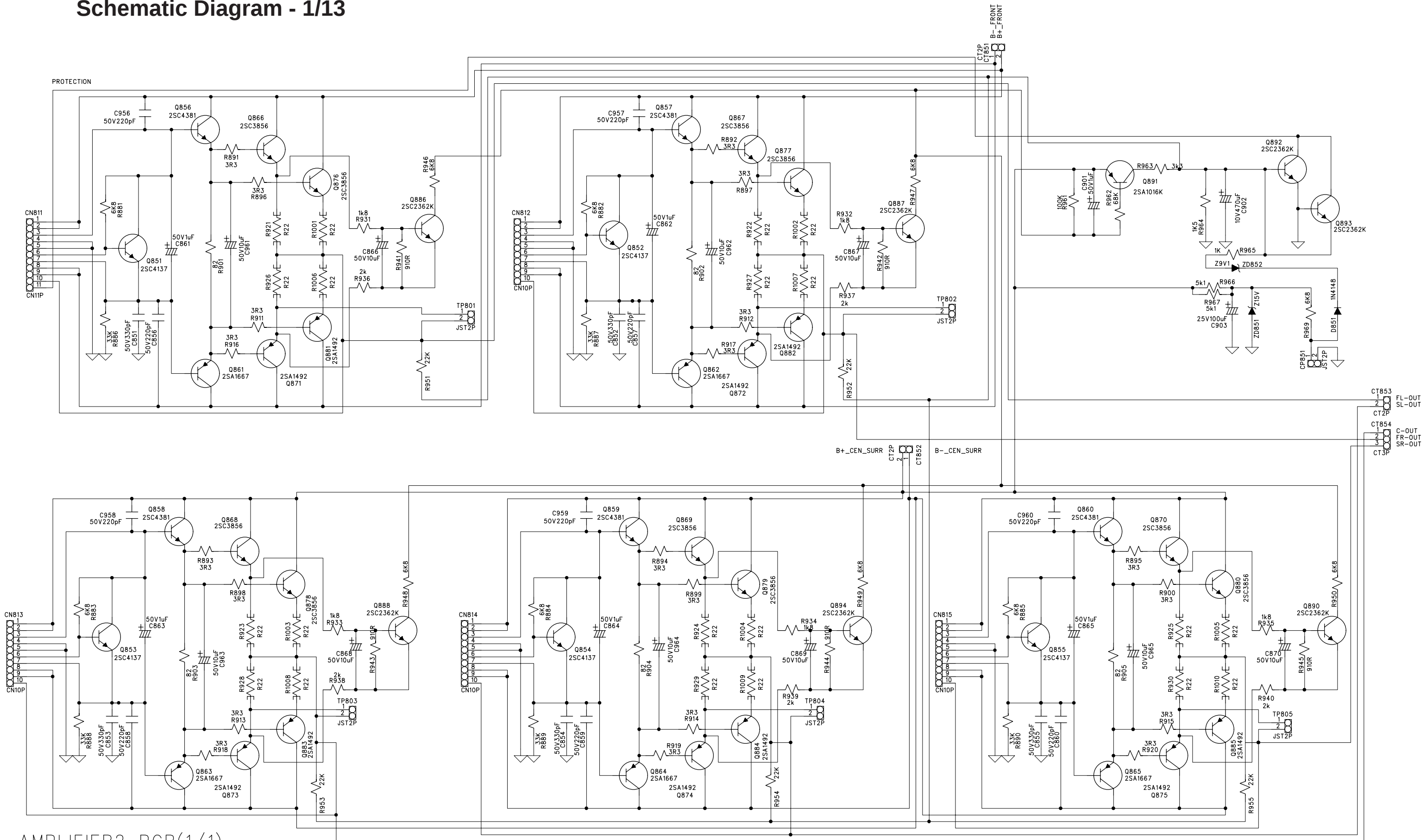
Bottom View



Block Diagram



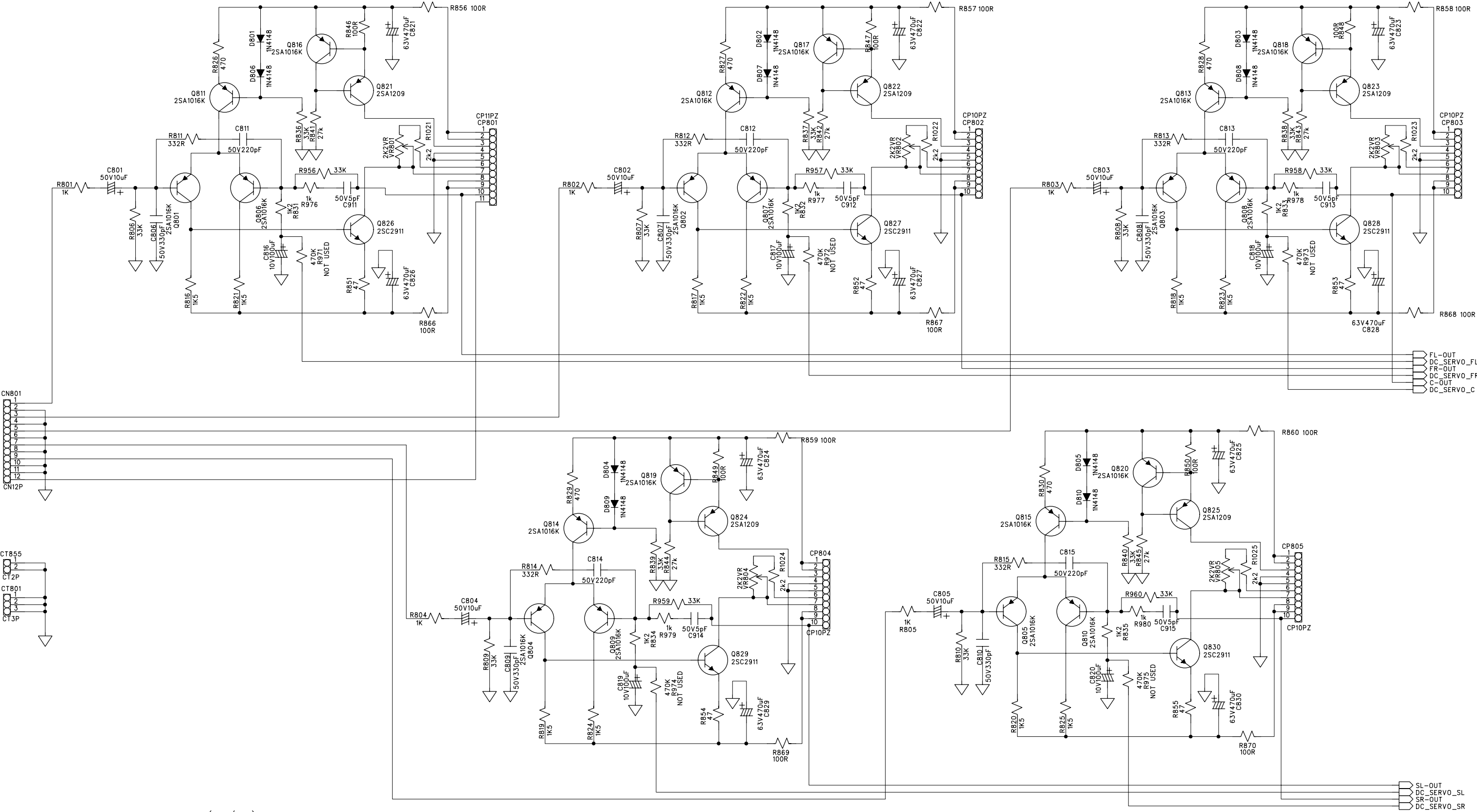
Schematic Diagram - 1/13



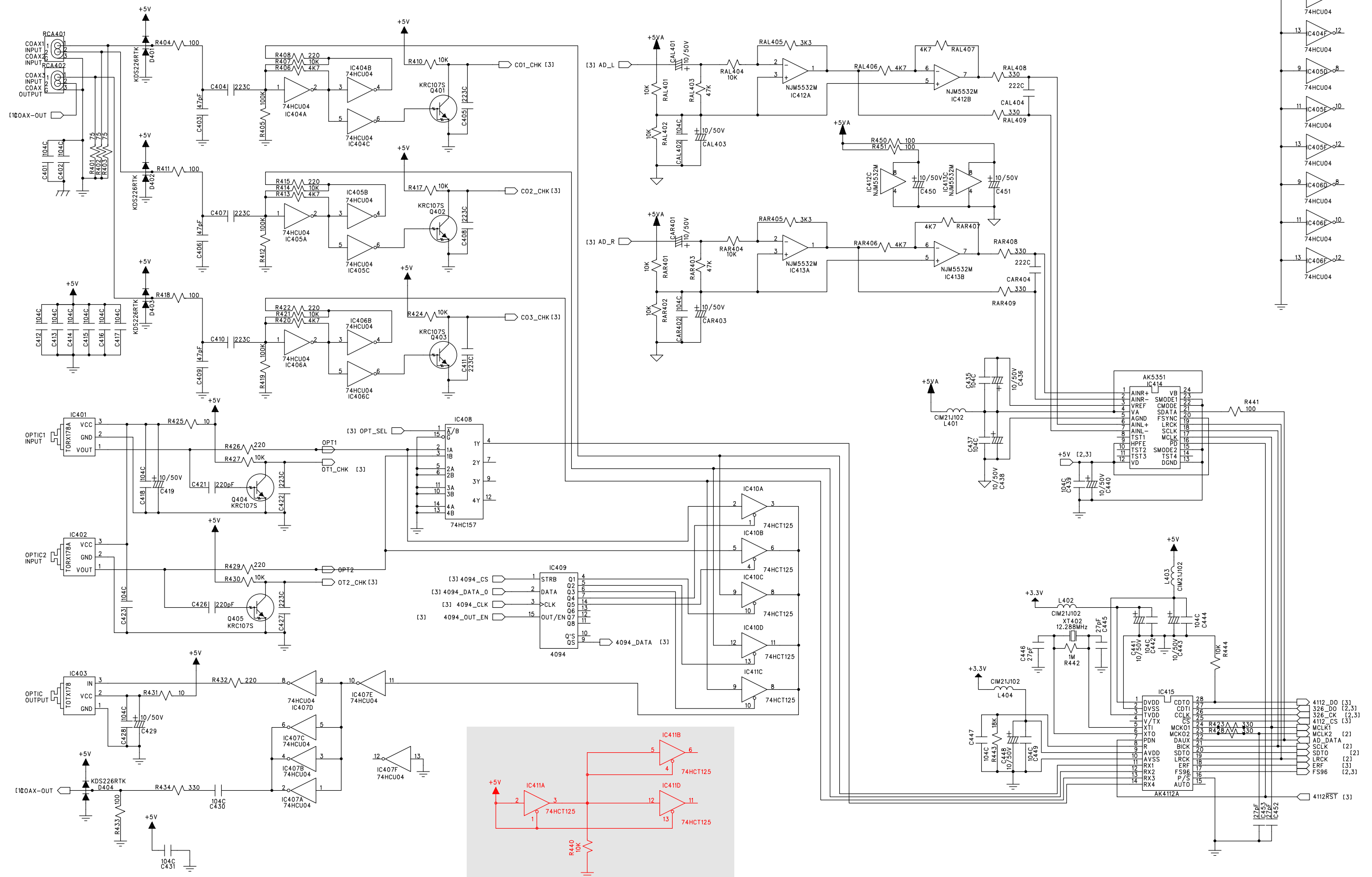
AMPLIFIER2 PCB(1/1)

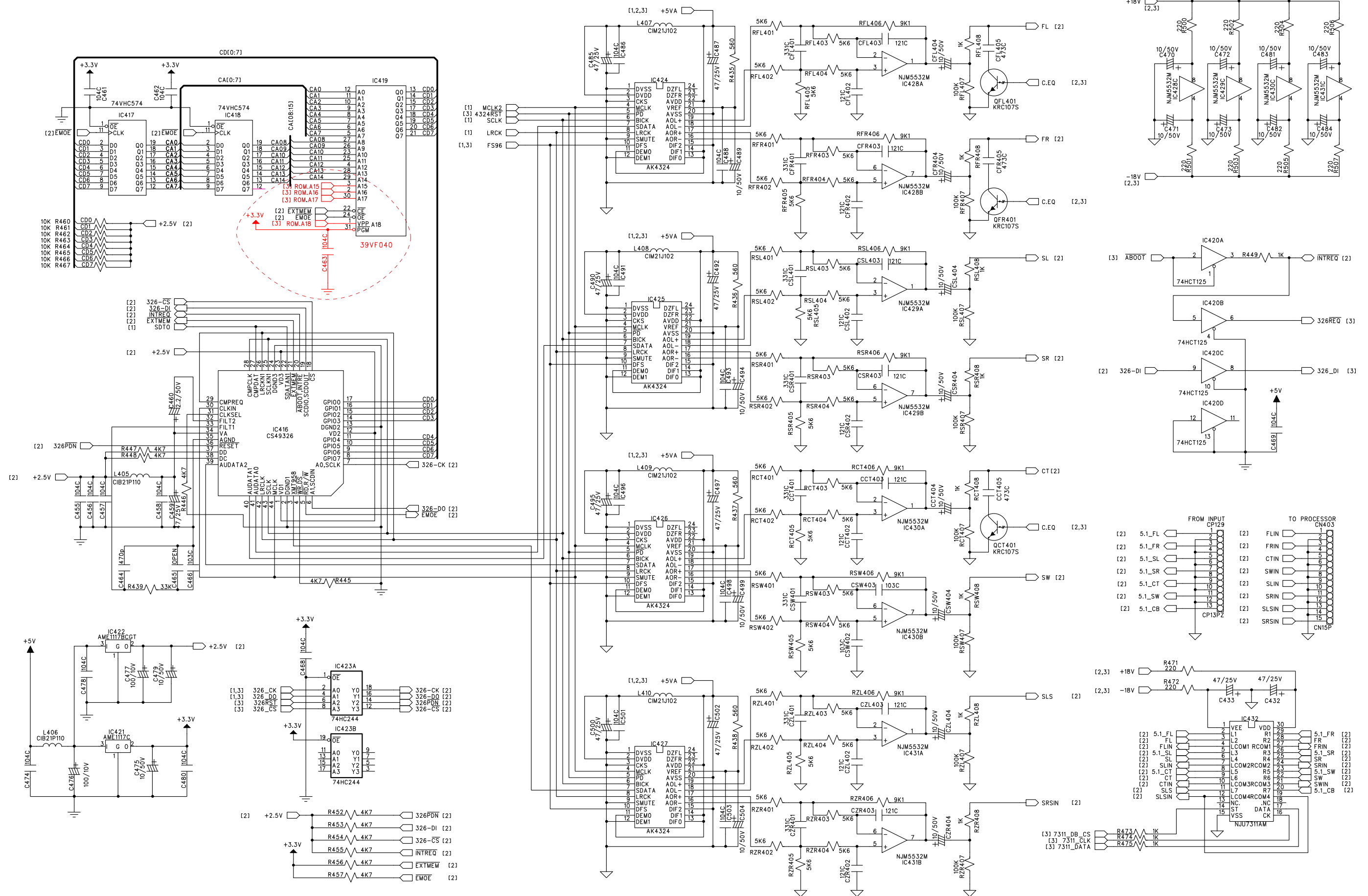
016X-1311A02

Schematic Diagram - 2/13

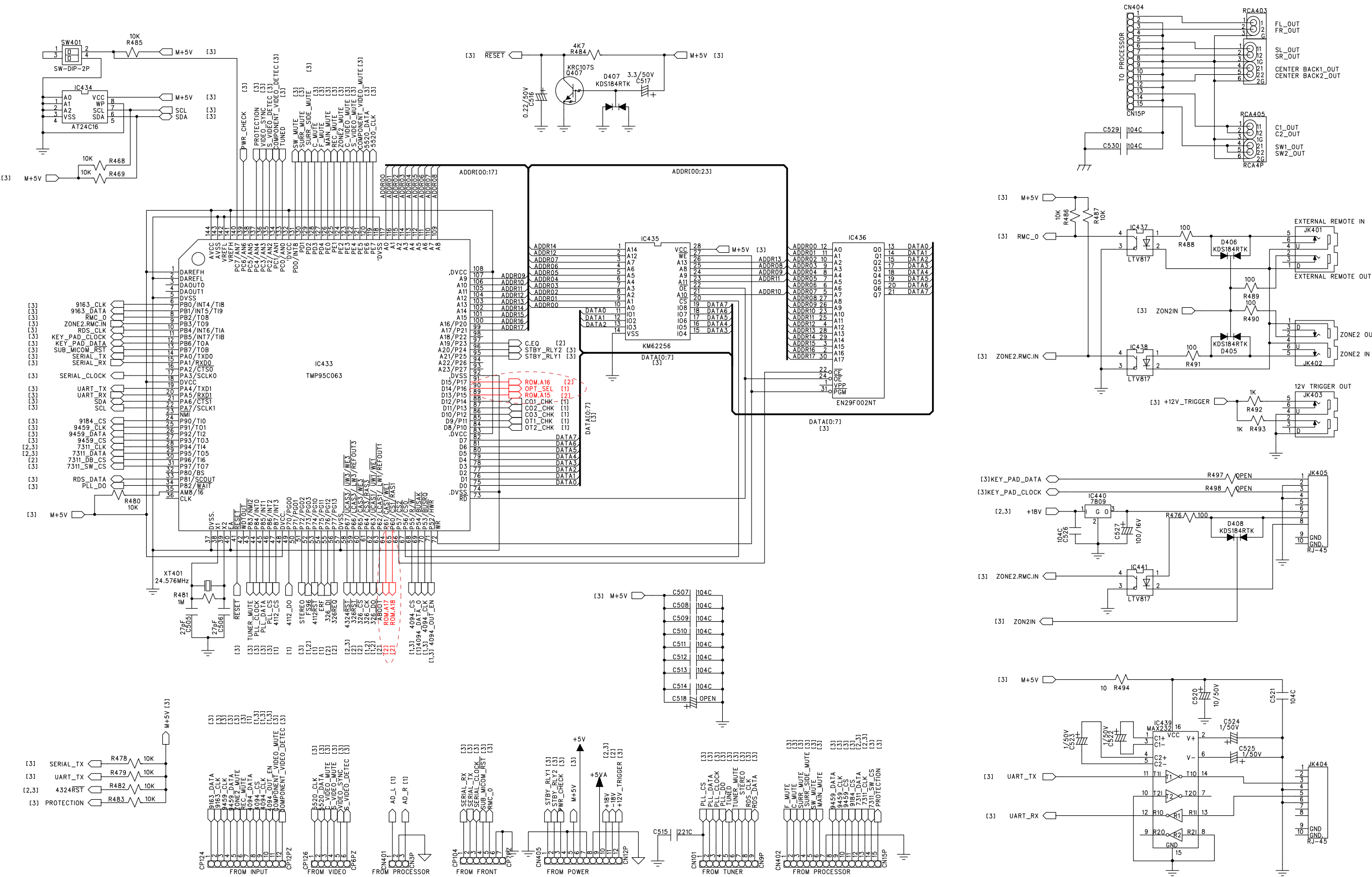


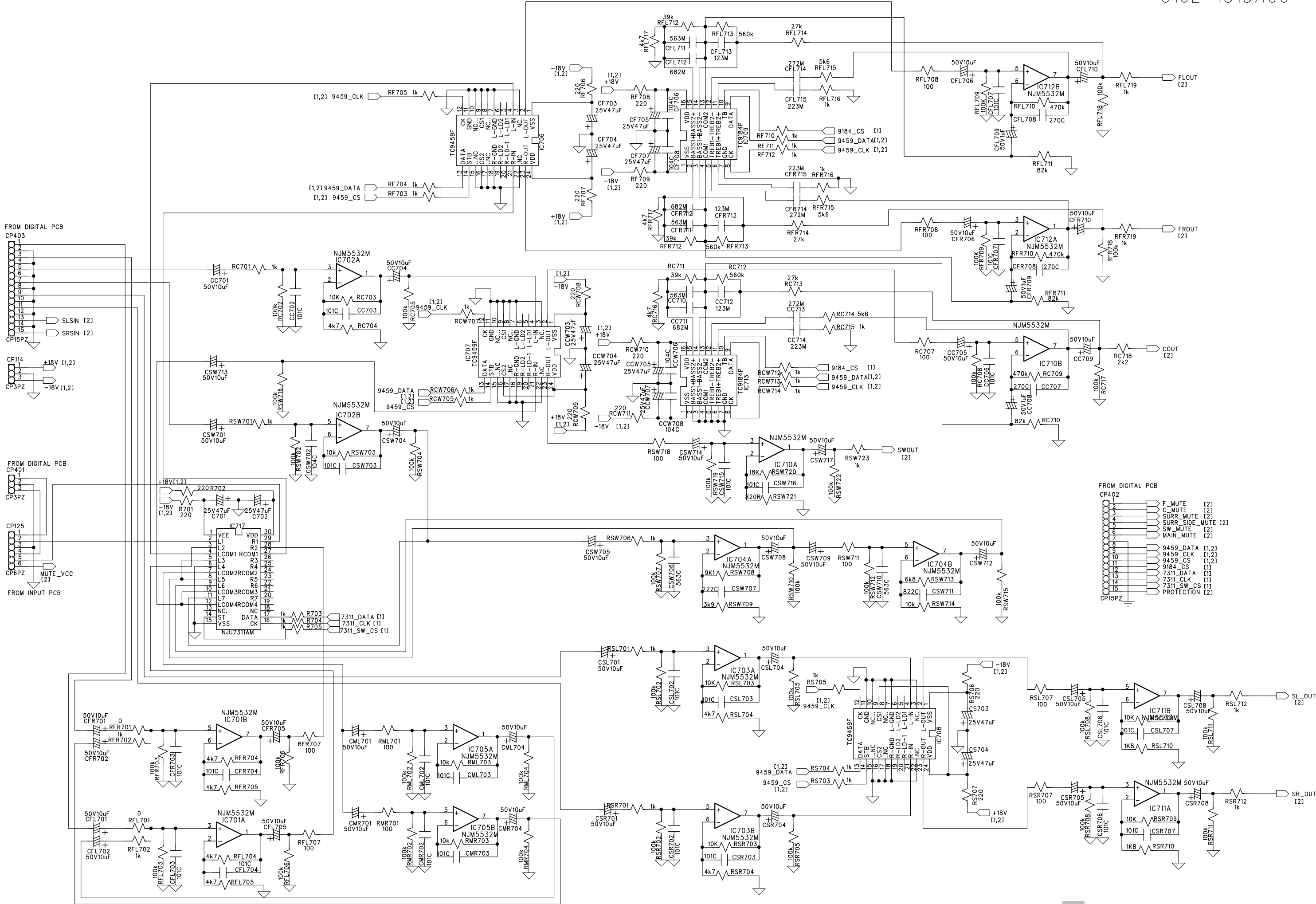
AMPLIFIER1 PCB(1/2)
016X-1311A01





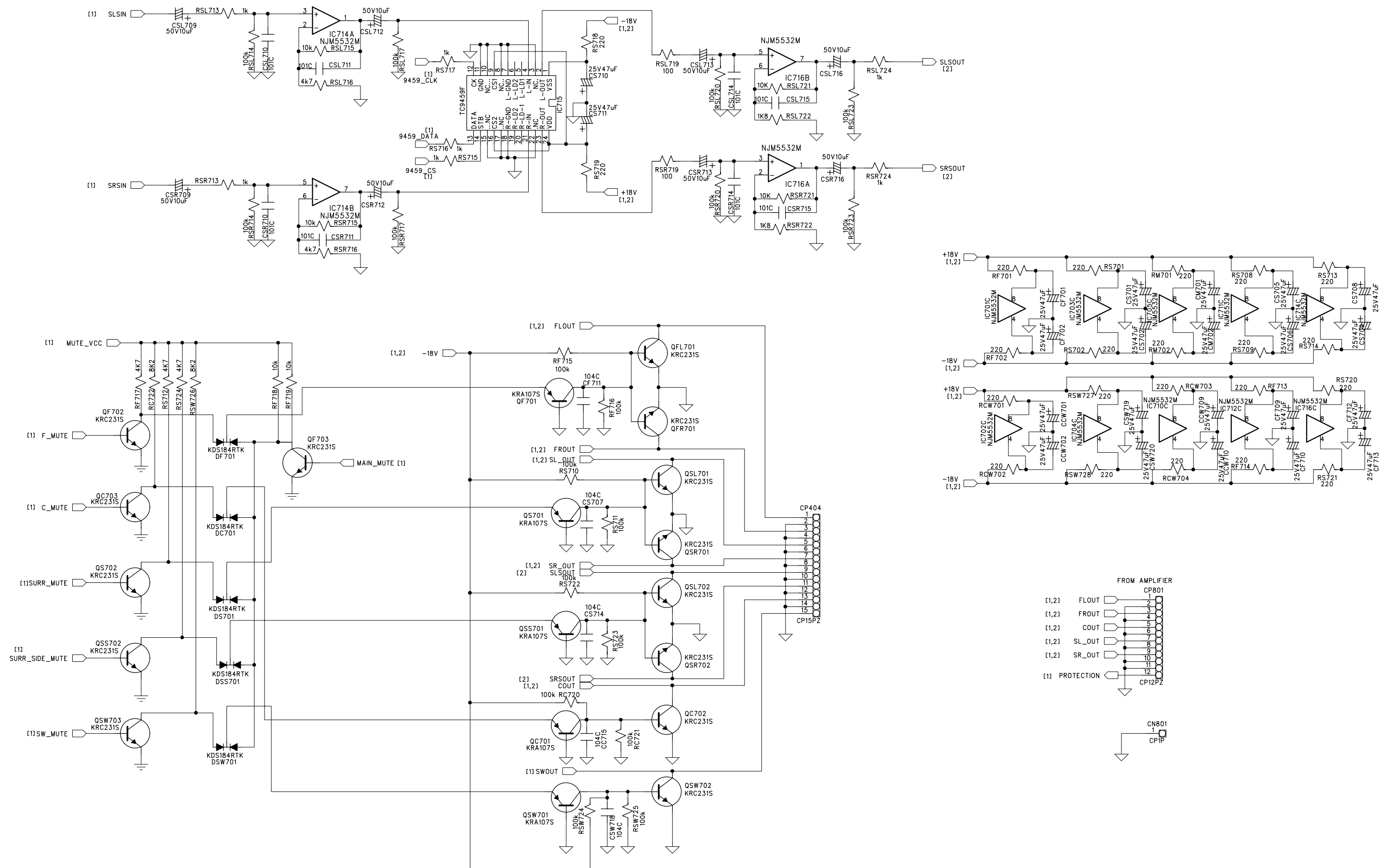
Digital 1 PCB (3/3) 016E-1312B00





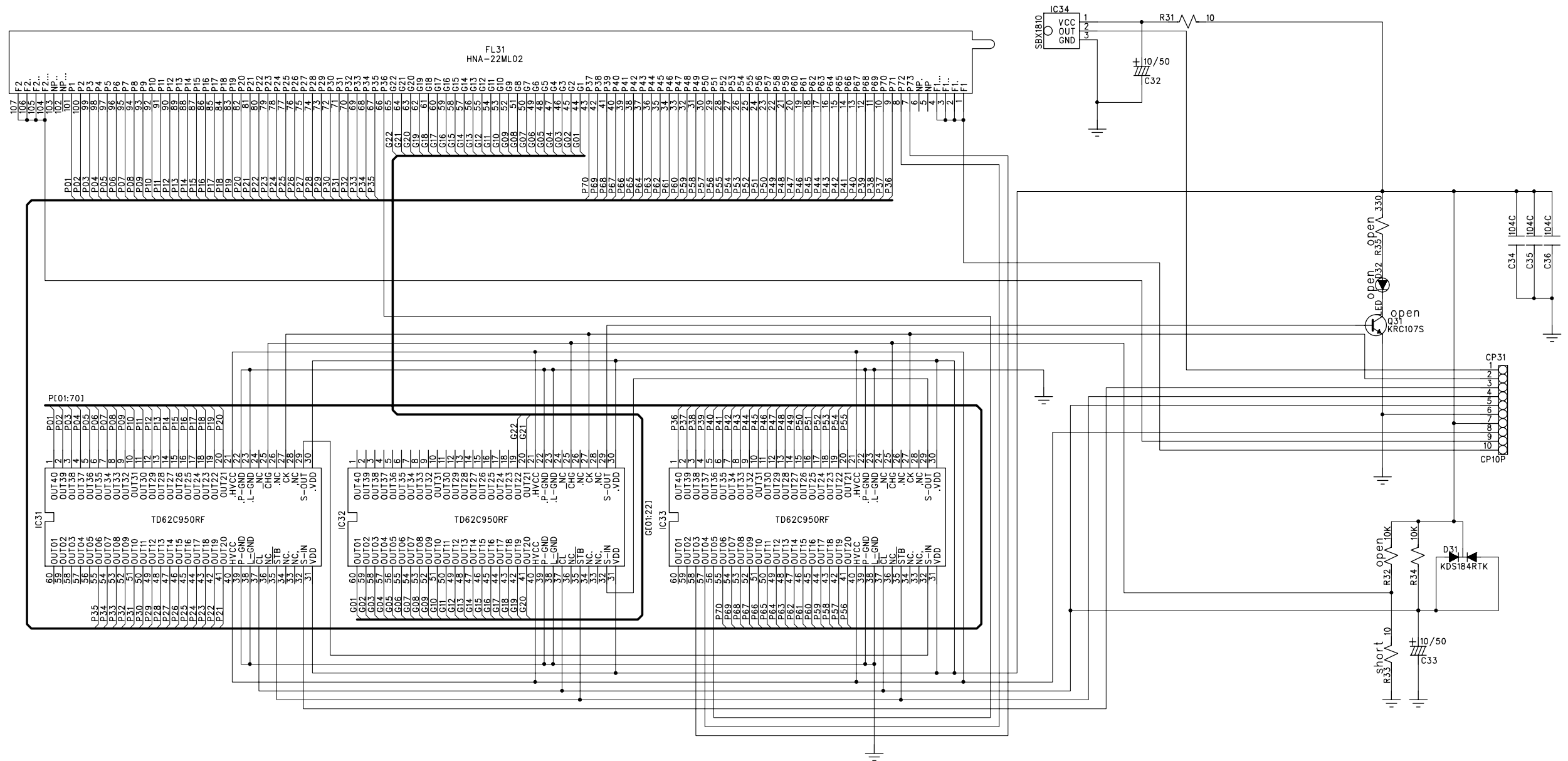
Digital Board -2 (2/2)

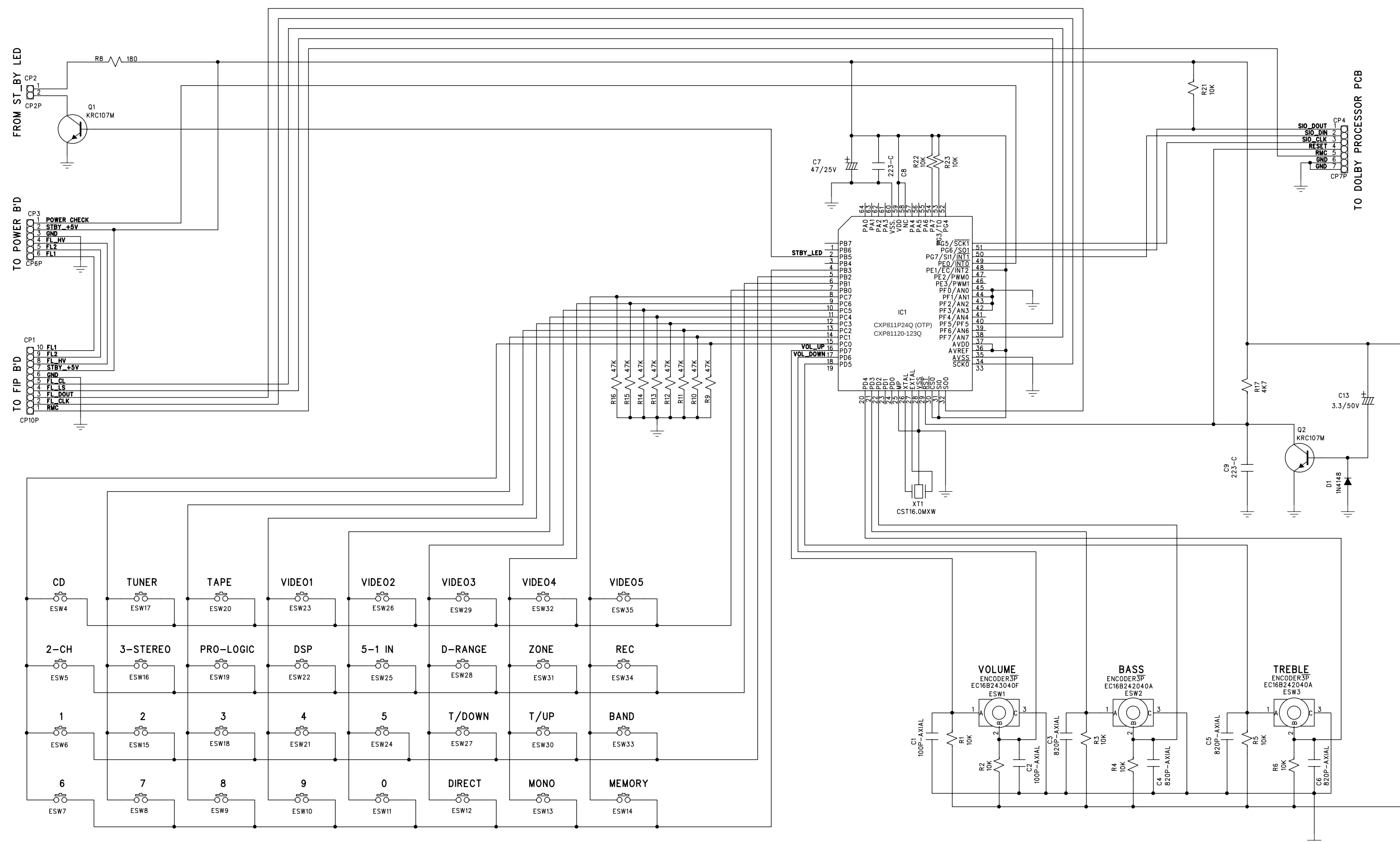
DIGITAL2 PCB
016E-1313A00



Schematic Diagram -8/13

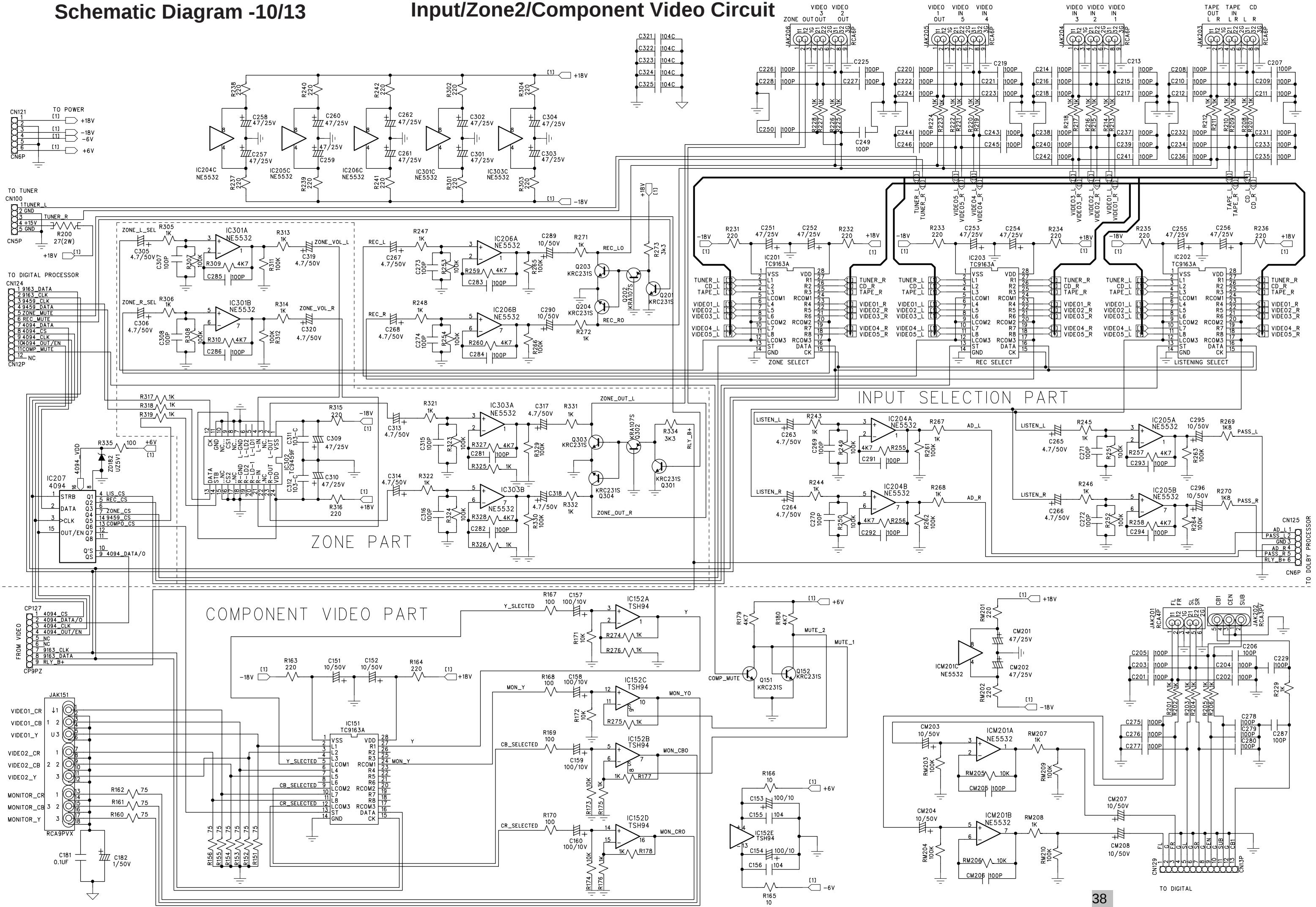
FIP Circuit





Schematic Diagram -10/13

Input/Zone2/Component Video Circuit



Power Supply Circuit

