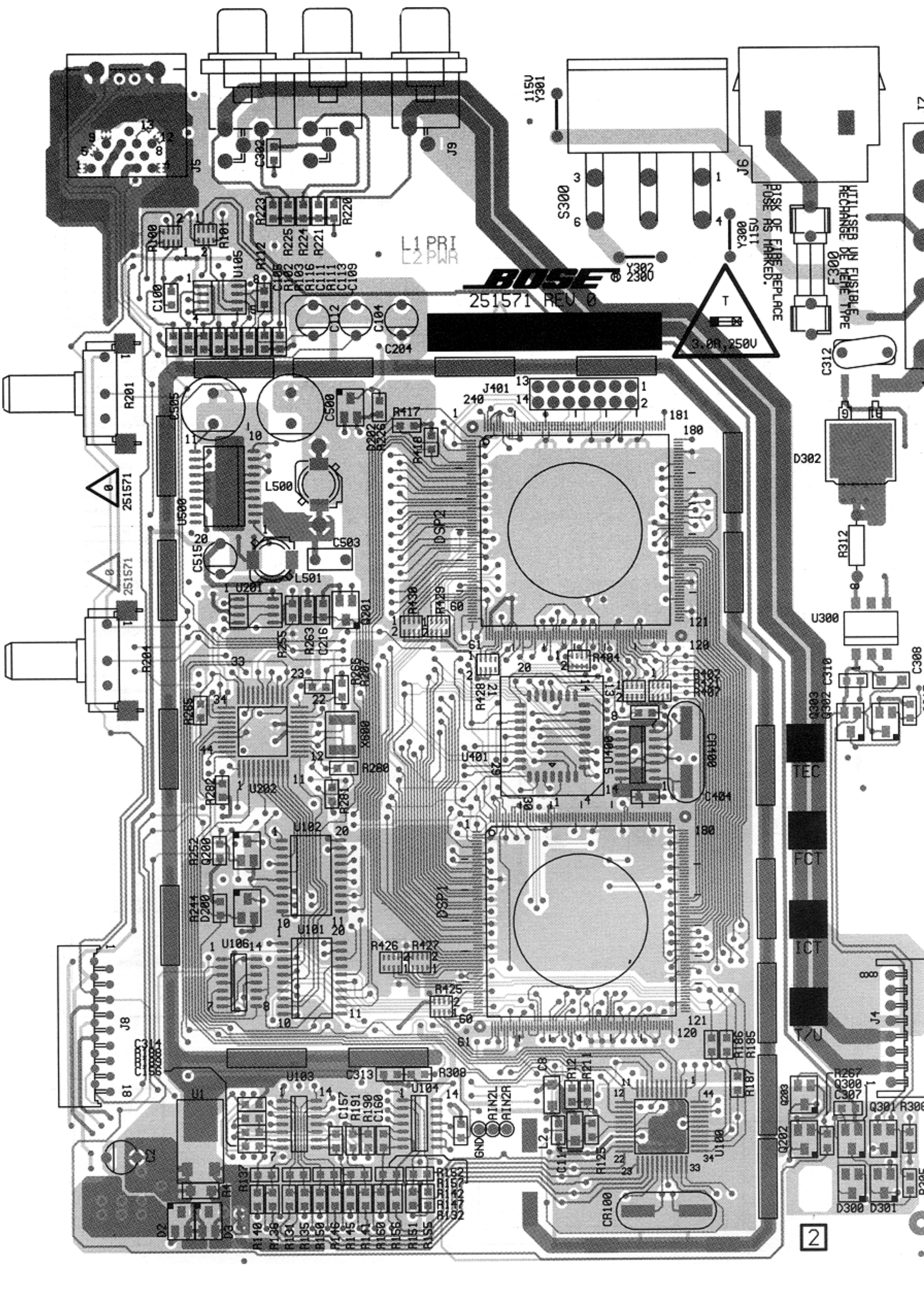
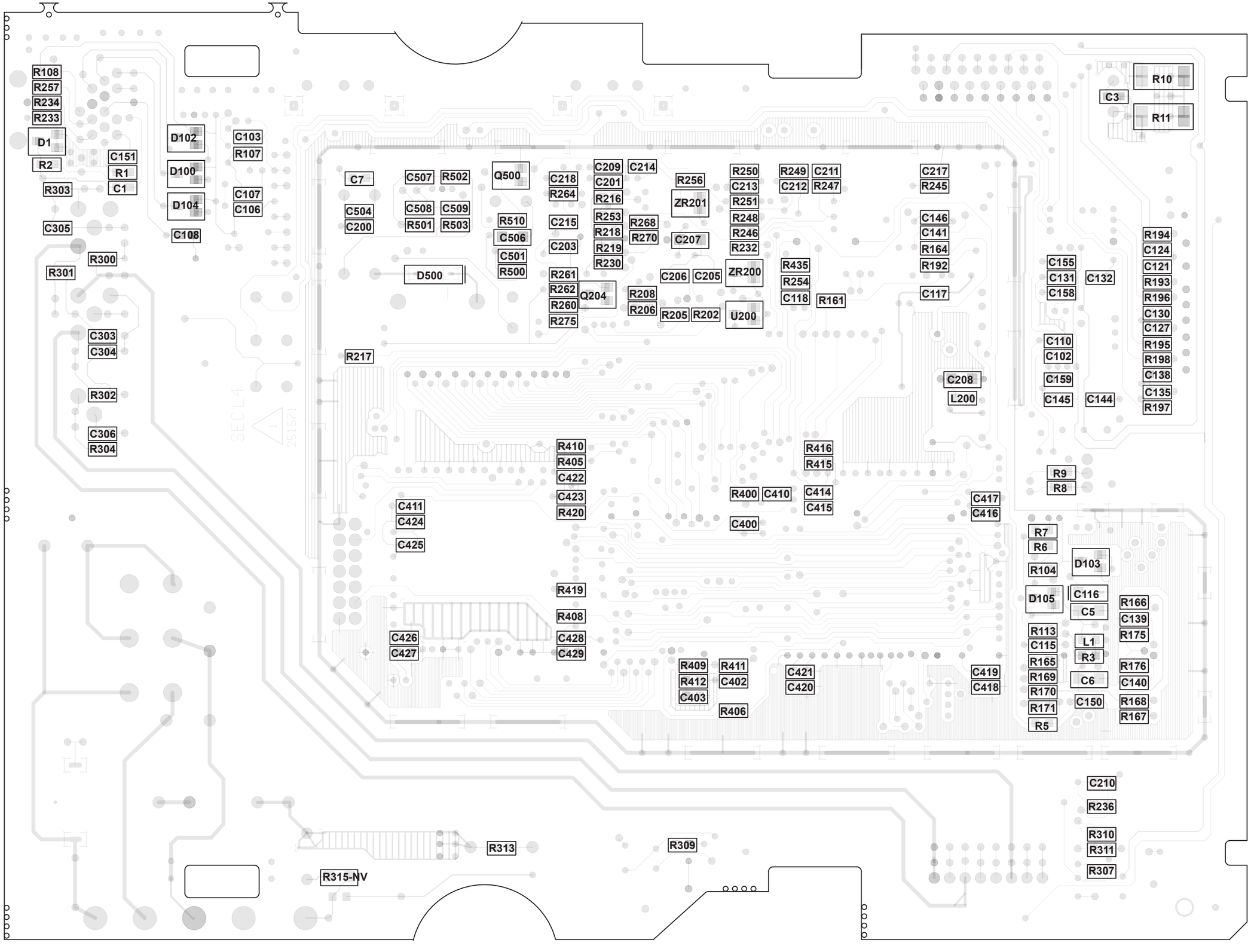
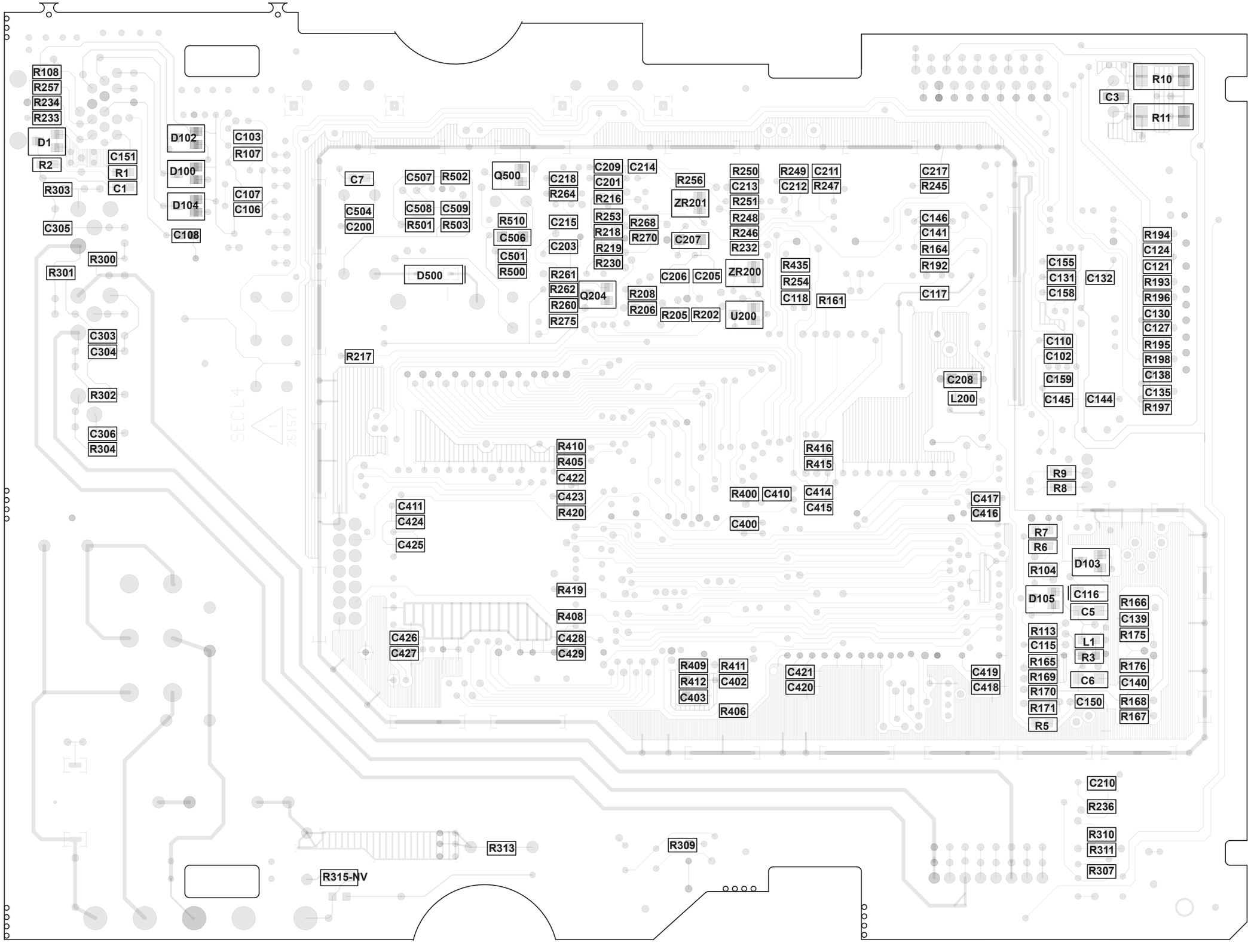
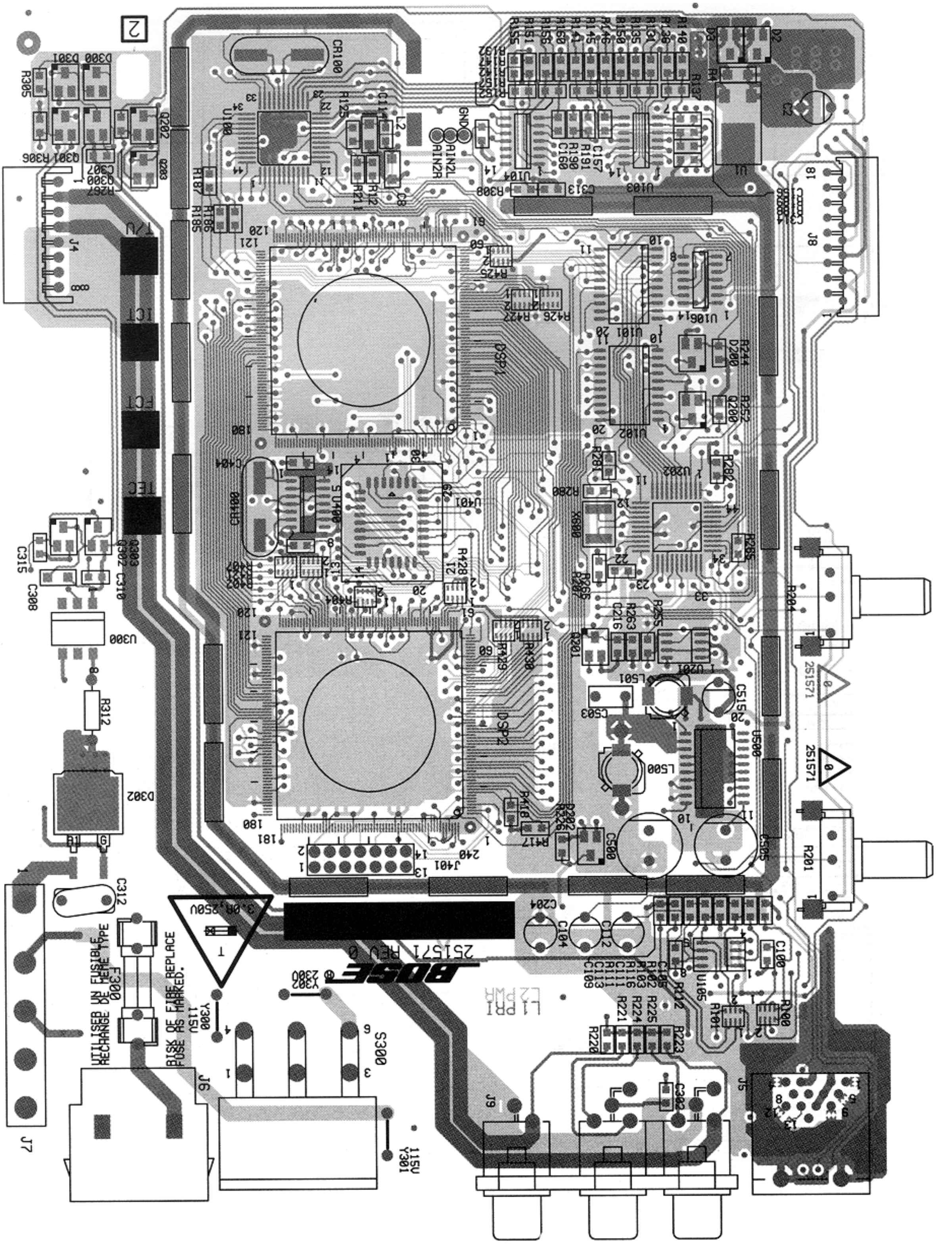
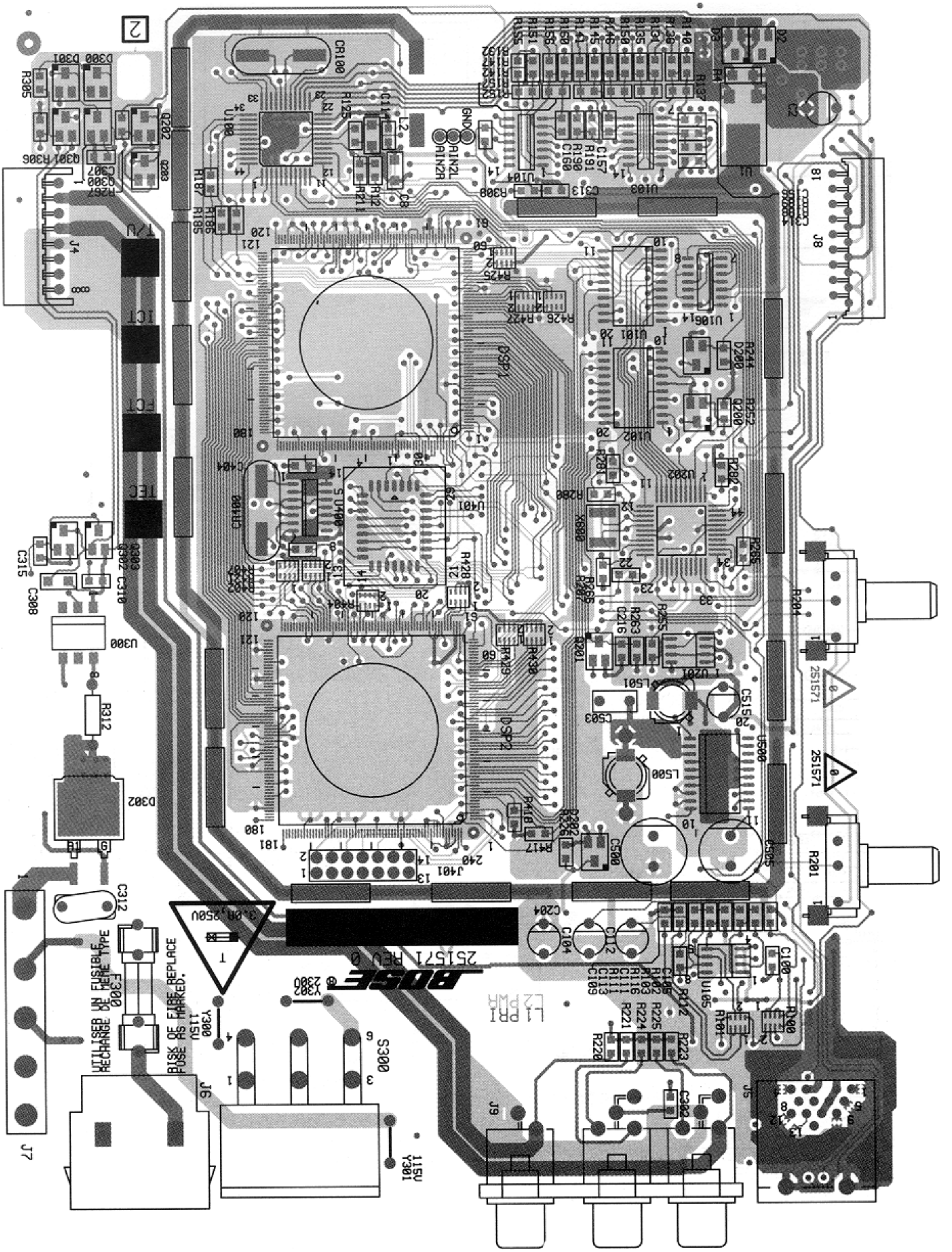


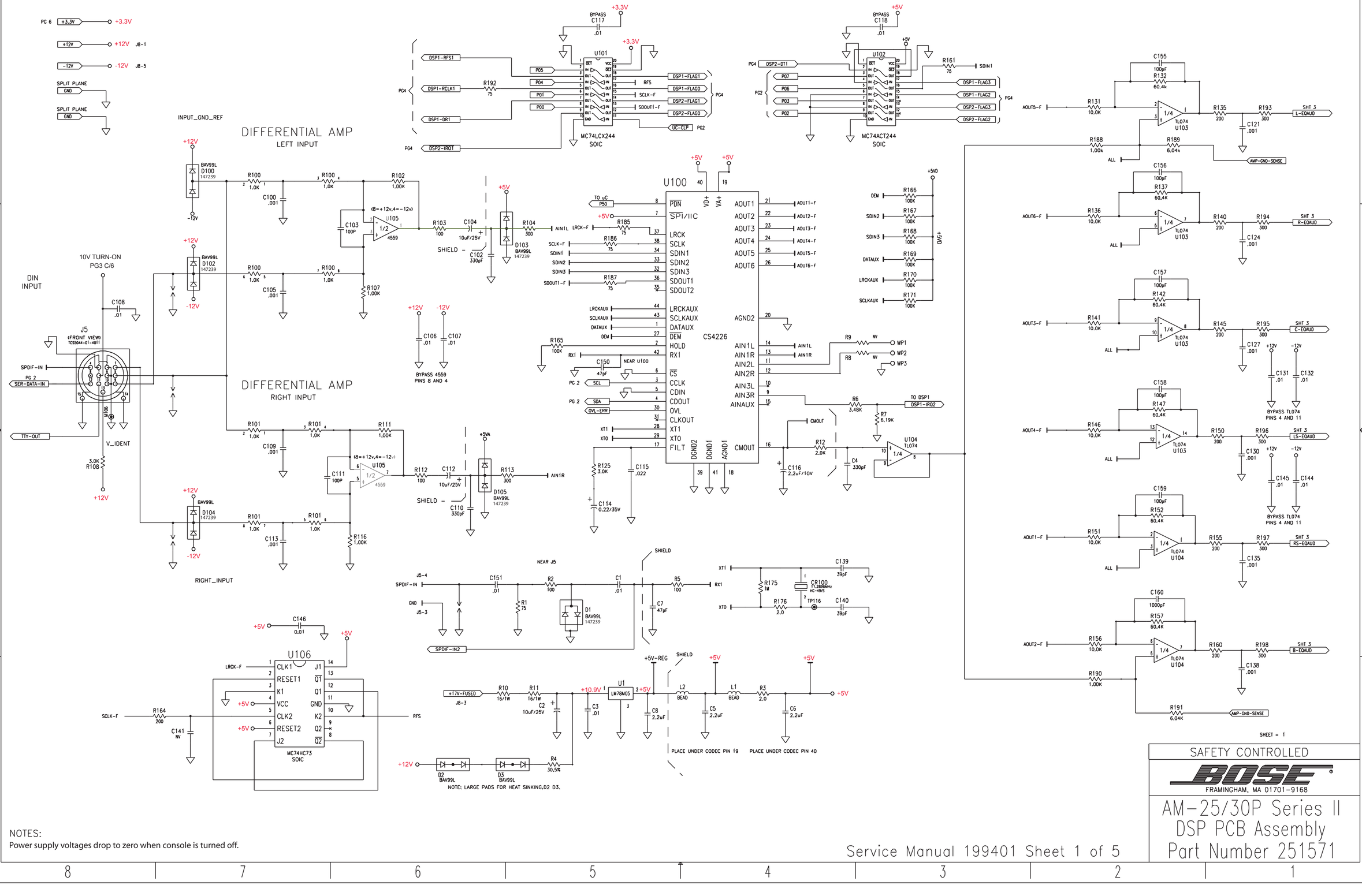
251571 REV 0
BOSE
3.0A,250V
RISK OF FIRE REPLACE FUSE AS MARKED.
UTILISER UN FUSIBLE DE RECHANGE DE MEME TYPE
F300
J4
J5
J6
J7
J8
J9
J401
S300
Y300 115V
Y301 115V
Y302 230V
L1 PRI
L2 PWR
DSP1
DSP2
U100
U101
U102
U103
U104
U105
U106
U201
U202
U300
U400
U401
U500
D302
R201
R204
CR100
CR400
X600
L500
L501
C500
C505
C503
C515
T/U
ICT
FCT
TEC
GND
AIN2L
AIN2R
2

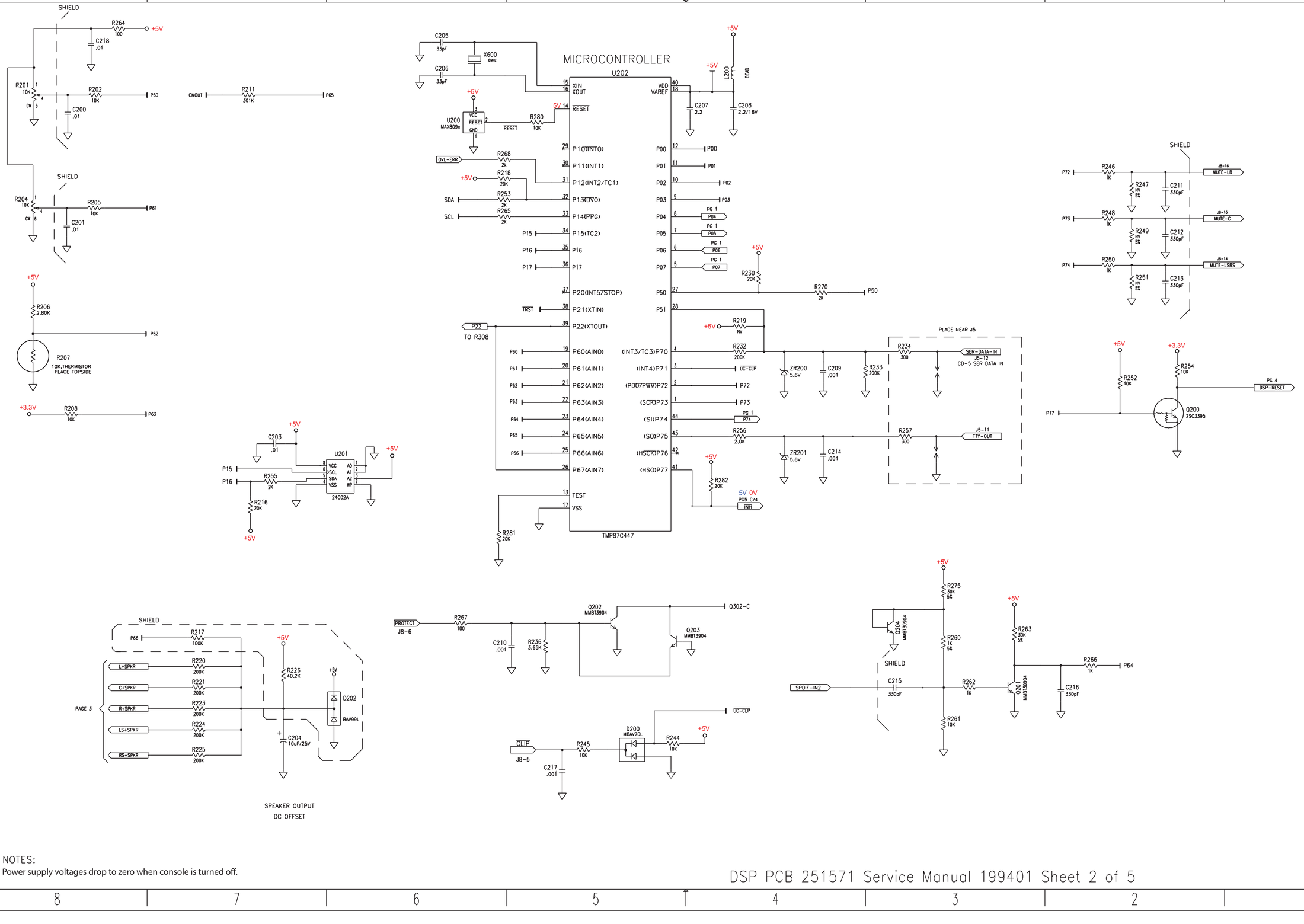

R108
R257
R234
R233
D1
R2
C151
R1
C1
R303
C305
R300
R301
C303
C304
R302
C306
R304
D102
D100
D104
C108
C103
R107
C107
C106
C7
C504
C200
C507
R502
C508
C509
R501
R503
Q500
R510
C506
C501
R500
D500
C218
R264
C215
C203
R261
R262
R260
R275
Q204
C209
C214
C201
R216
R253
R218
R219
R230
R256
ZR201
R268
R270
C207
C206
C205
ZR200
R208
R206
R205
R202
U200
R250
C213
R251
R248
R246
R232
R249
C211
C212
R247
R435
R254
C118
R161
C217
R245
C146
C141
R164
R192
C117
C208
L200
C155
C131
C158
C132
C110
C102
C159
C145
C144
R10
C3
R11
R194
C124
C121
R193
R196
C130
C127
R195
R198
C138
C135
R197
R217
R410
R405
C422
C423
R420
C411
C424
C425
R419
R408
C428
C429
C426
C427
R409
R412
C403
R411
C402
R406
C421
C420
R400
C410
C414
C415
C400
R416
R415
C417
C416
C419
C418
R9
R8
R7
R6
R104
D103
D105
C116
C5
C113
C115
R165
R169
R170
R171
R5
C6
C150
R166
C139
R175
L1
R3
R176
C140
R168
R167
C210
R236
R310
R311
R307
R313
R315-NV
R309


R108
R257
R234
R233
D1
R2
C151
R1
C1
R303
C305
R300
R301
C303
C304
R302
C306
R304
D102
D100
D104
C108
C103
R107
C107
C106
C7
C504
C200
C507
R502
C508
C509
R501
R503
Q500
R510
C506
C501
R500
D500
C218
R264
C215
C203
R261
R262
R260
R275
Q204
C209
C214
C201
R216
R253
R218
R219
R230
R256
ZR201
R268
R270
C207
C206
C205
ZR200
R208
R206
R205
R202
U200
R250
C213
R251
R248
R246
R232
R249
C211
C212
R247
R435
R254
C118
R161
C217
R245
C146
C141
R164
R192
C117
C208
L200
C155
C131
C158
C132
C110
C102
C159
C145
C144
R10
C3
R11
R194
C124
C121
R193
R196
C130
C127
R195
R198
C138
C135
R197
R217
R410
R405
C422
C423
R420
C411
C424
C425
R419
R408
C428
C429
C426
C427
R409
R412
C403
R411
C402
R406
C421
C420
R400
C410
C414
C415
C400
R416
R415
C417
C416
C419
C418
R9
R8
R7
R6
R104
D103
D105
C116
C5
C113
C115
R165
R169
R170
R171
R5
C6
C150
R166
C139
R175
L1
R3
R176
C140
R168
R167
C210
R236
R310
R311
R307
R313
R315-NV
R309

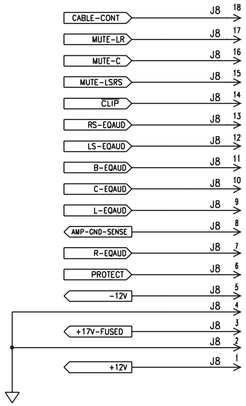

251571 REV 0
3.0A,250V
RISK OF FIRE REPLACE FUSE AS MARKED.
UTILISER UN FUSIBLE DE RECHANGE DE MEME TYPE

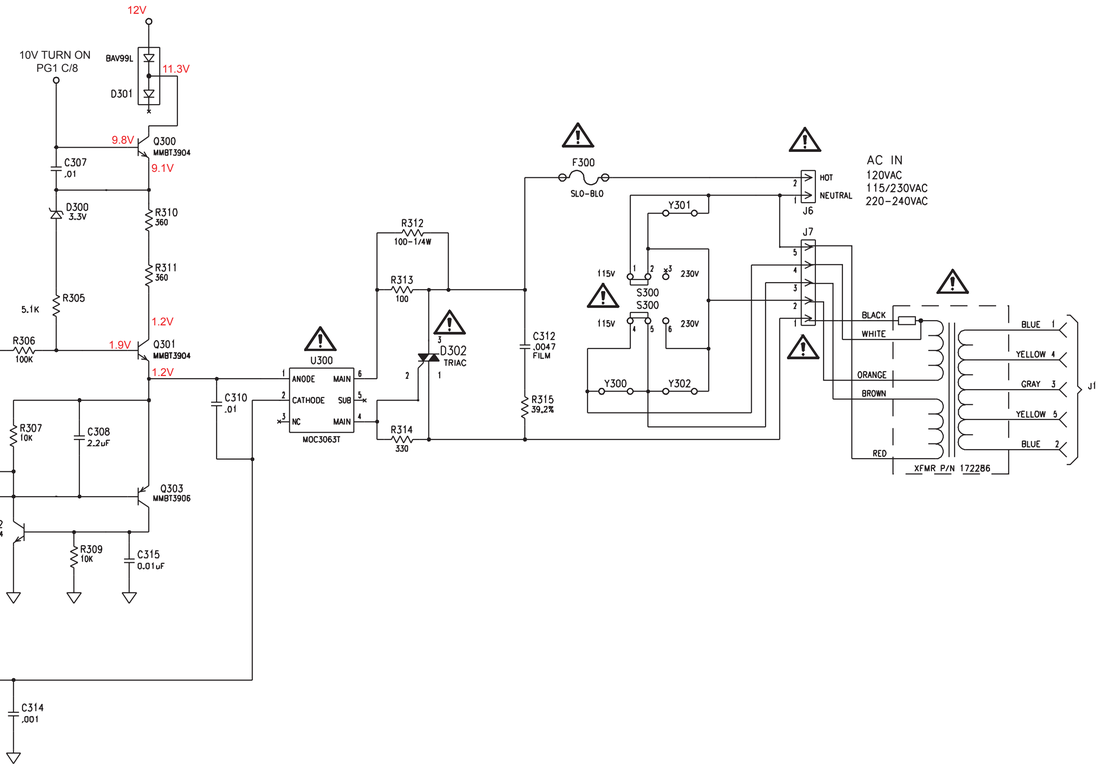

251571 REV 0
3.0A,250V
RISK OF FIRE REPLACE FUSE AS MARKED.
UTILISER UN FUSIBLE DE RECHANGE DE MEME TYPE
S300
J6
J7
J9

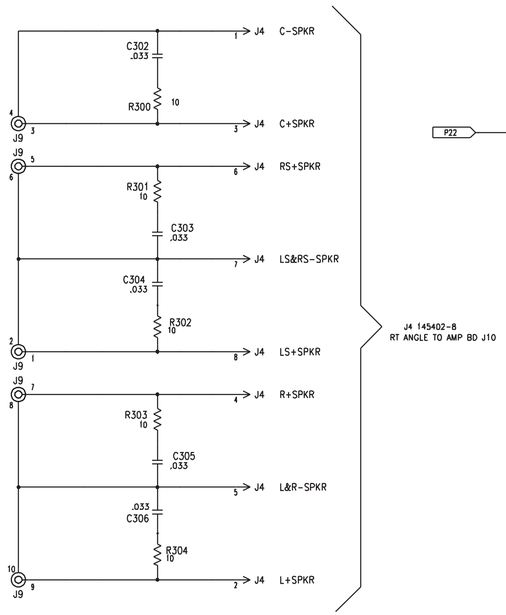

PG 6 +3.3V
+12V JB-1
-12V JB-5
SPLIT PLANE GND
SPLIT PLANE GND
INPUT_GND_REF
DIFFERENTIAL AMP
LEFT INPUT
DIFFERENTIAL AMP
RIGHT INPUT
10V TURN-ON
PG3 C/6
DIN
INPUT
J5
(FRONT VIEW)
TCS5044-01-4011
SPDIF-IN
PG 2
SER-DATA-IN
TTY-OUT
V_IDENT
3.0K
R108
RIGHT_INPUT
BYPASS 4559
PINS 8 AND 4
BYPASS
C117
.01
BYPASS
C118
.01
U101
MC74LCX244
SOIC
U102
MC74ACT244
SOIC
DSP1-RFS1
DSP1-RCLK1
DSP1-DR1
DSP2-IRQ1
DSP2-DT1
DSP1-FLAG1
DSP1-FLAG0
DSP2-FLAG1
DSP2-FLAG0
UC-CLP
DSP1-FLAG3
DSP1-FLAG2
DSP2-FLAG3
DSP2-FLAG2
RFS
SCLK-F
SDOUT1-F
SDIN1
U100
CS4226
PDN
SPI/IIC
LRCK
SCLK
SDIN1
SDIN2
SDIN3
SDOUT1
SDOUT2
LRCKAUX
SCLKAUX
DATAUX
DEM
HOLD
RX1
CS
CCLK
CDIN
CDOUT
OVL
CLKOUT
XT1
XTO
FILT
AOUT1
AOUT2
AOUT3
AOUT4
AOUT5
AOUT6
AGND2
AIN1L
AIN1R
AIN2L
AIN2R
AIN3L
AIN3R
AINAUX
CMOUT
VD+
VA+
TO uC
P50
LRCK-F
SCLK-F
SDIN1
SDIN2
SDIN3
SDOUT1-F
AIN1L
AIN1R
SCL
SDA
OVL-ERR
NEAR U100
TO DSP1
DSP1-IRQ2
U103
U104
TL074
1/4
1/2
4559
SHT 3
L-EQAUD
R-EQAUD
C-EQAUD
LS-EQAUD
RS-EQAUD
B-EQAUD
AMP-GND-SENSE
AOUT5-F
AOUT6-F
AOUT3-F
AOUT4-F
AOUT1-F
AOUT2-F
U106
MC74HC73
SOIC
SHIELD
SPDIF-IN2
NEAR J5
+17V-FUSED
J8-3
+10.9V
+5V-REG
PLACE UNDER CODEC PIN 19
PLACE UNDER CODEC PIN 40
NOTE: LARGE PADS FOR HEAT SINKING,D2 D3.
SHEET = 1
SAFETY CONTROLLED
BOSE
FRAMINGHAM, MA 01701-9168
AM-25/30P Series II
DSP PCB Assembly
Part Number 251571
NOTES:
Power supply voltages drop to zero when console is turned off.
Service Manual 199401 Sheet 1 of 5



NOTES:
Power supply voltages drop to zero when console is turned off.

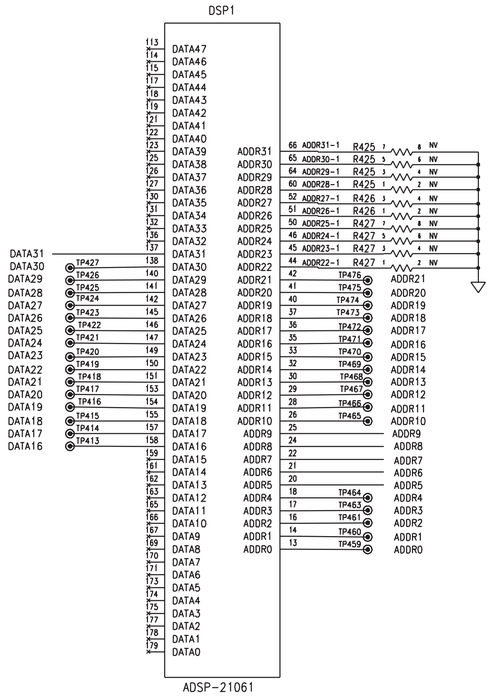


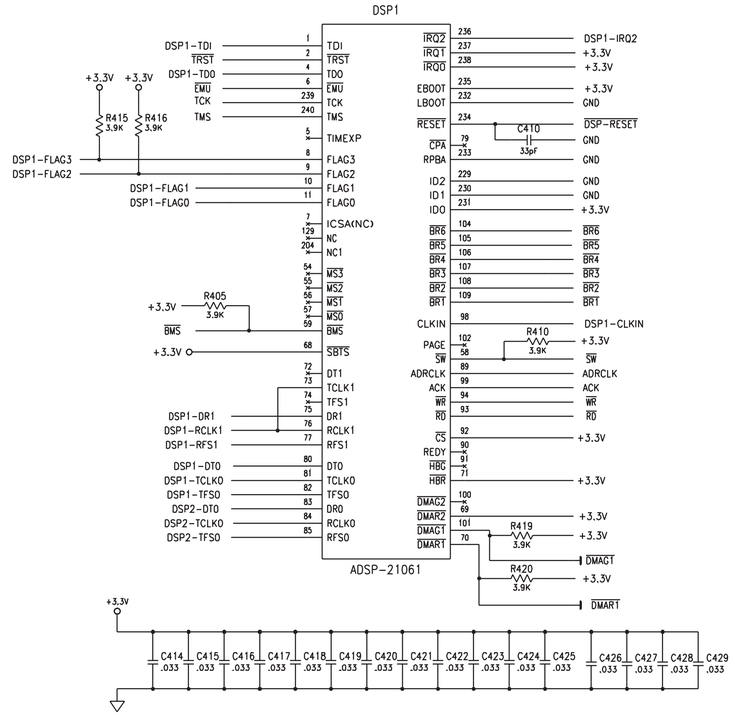


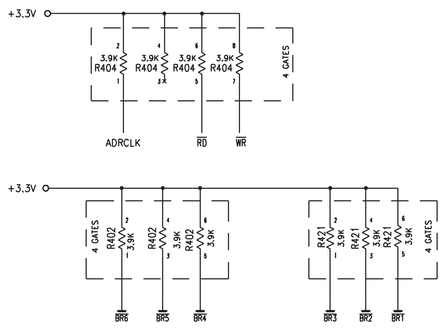


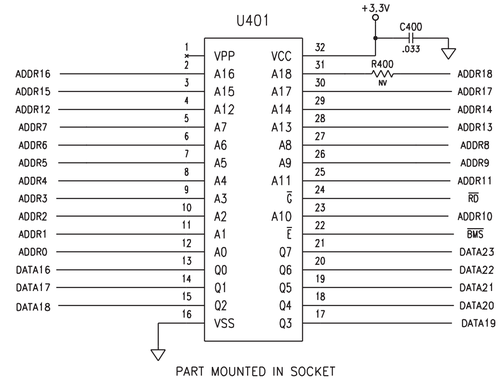
J4 145402-8
RT ANGLE TO AMP BD J10

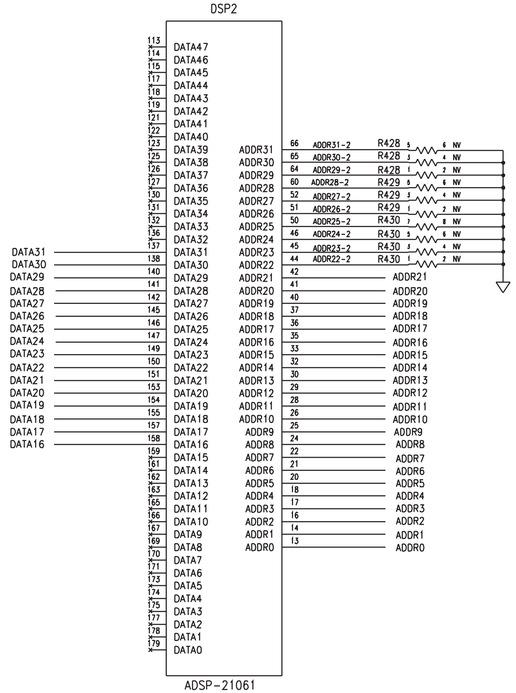
NOTES:
Power supply voltages drop to zero when console is turned off.

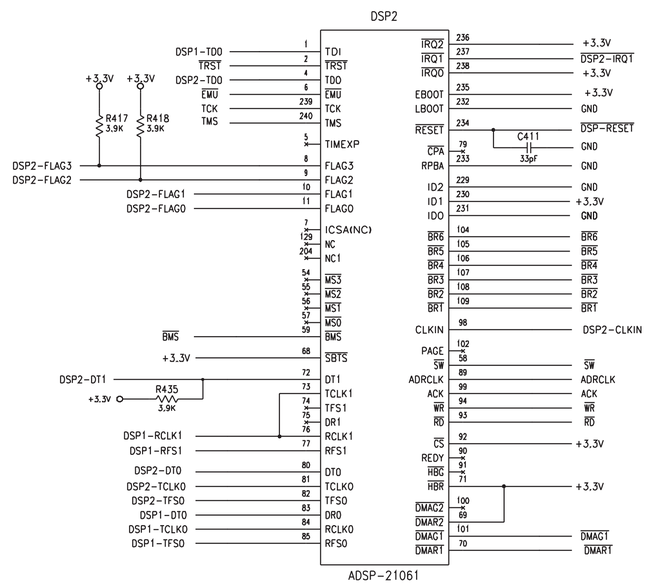


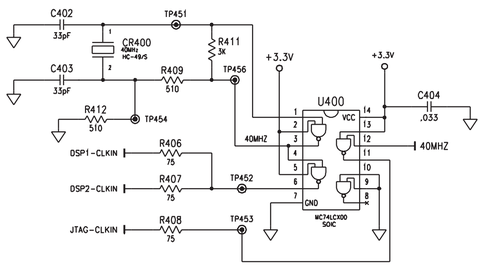


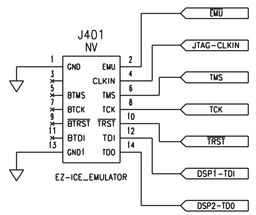




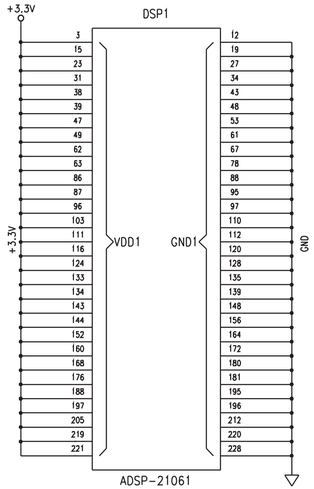


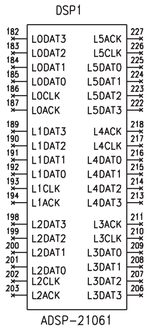


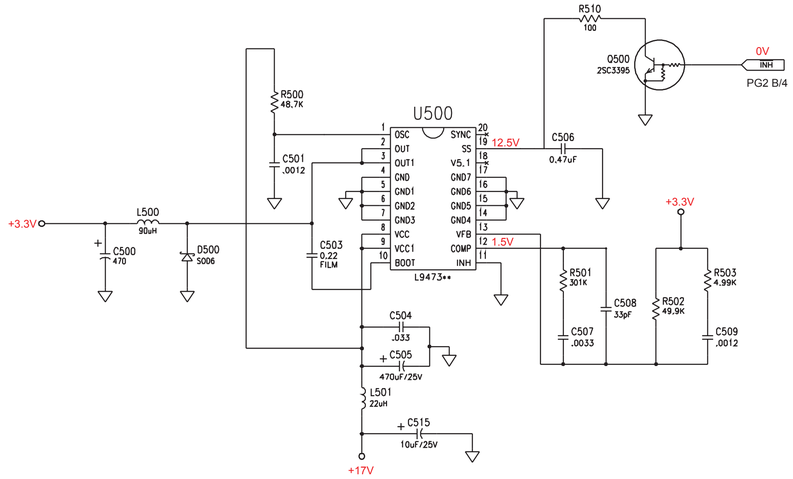




NOTES:
Power supply voltages drop to zero when console is turned off.





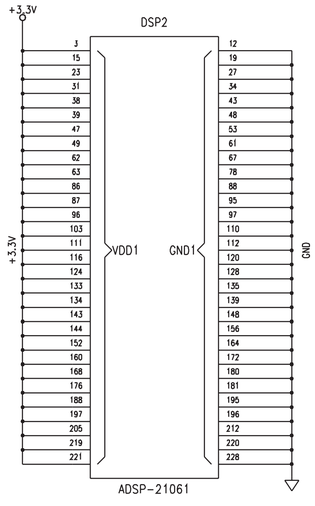


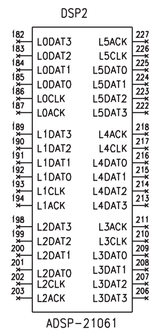
NOTE - At power down, 5V will be present at the base of Q500 for approximately 5 seconds to allow pin 19 of U500 to be pulled low, shutting off the regulator. The 3.3V supply is turned off as part of the normal power down sequence.

+17V-FUSED FROM J8-3

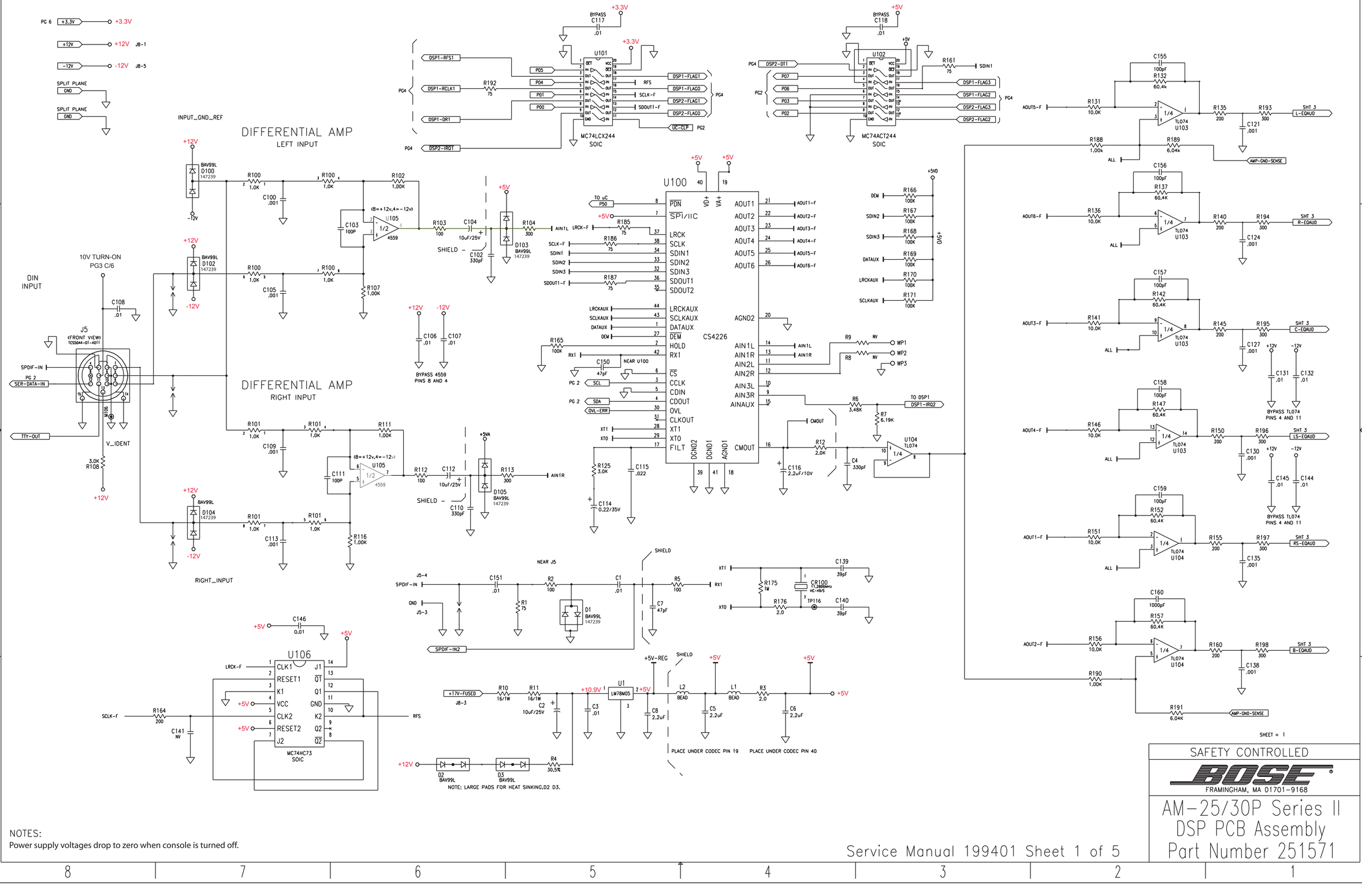
+3.3V

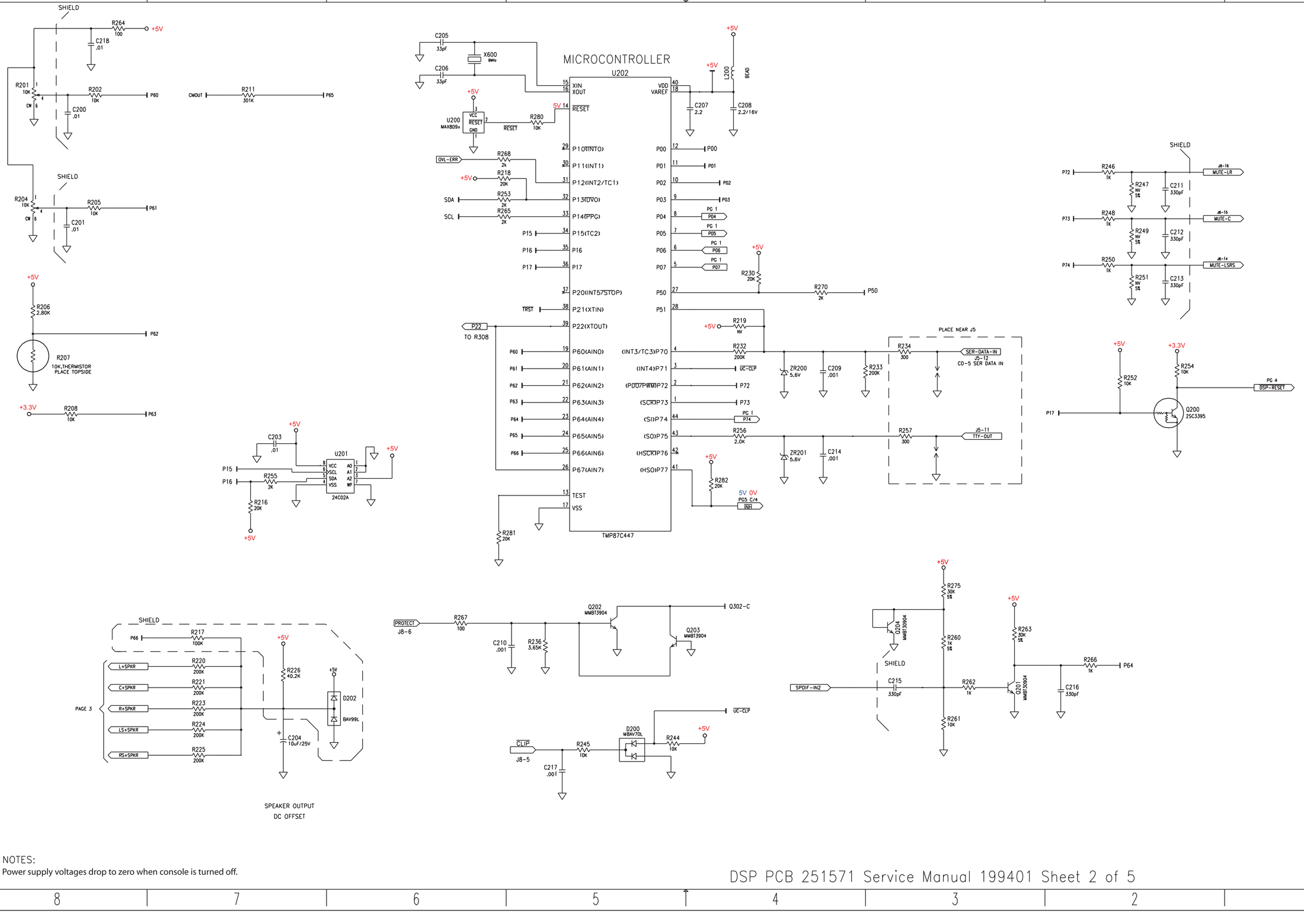
GND



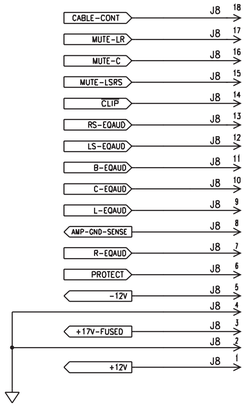


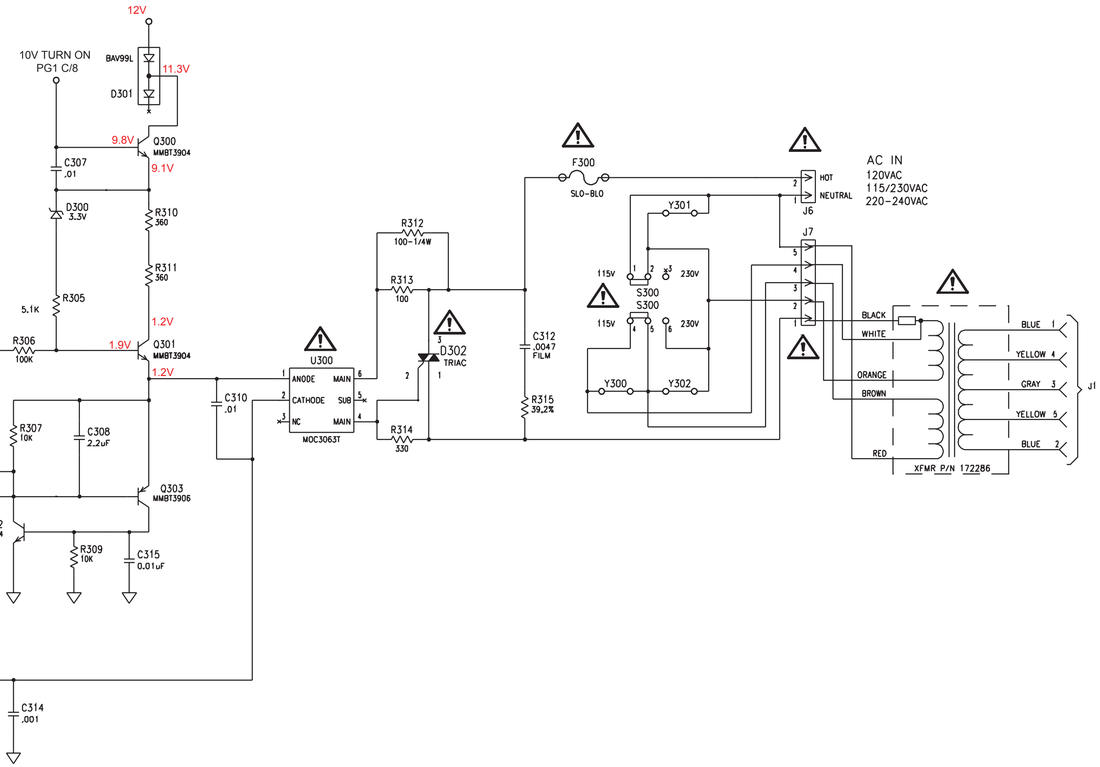
NOTES:
Power supply voltages drop to zero when console is turned off.

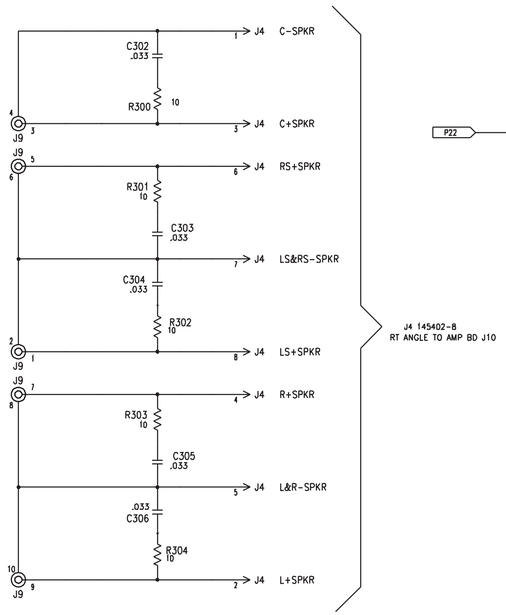

PG 6 +3.3V
+12V JB-1
-12V JB-5
SPLIT PLANE GND
SPLIT PLANE GND
INPUT_GND_REF
DIFFERENTIAL AMP
LEFT INPUT
DIFFERENTIAL AMP
RIGHT INPUT
10V TURN-ON
PG3 C/6
DIN
INPUT
J5
(FRONT VIEW)
TCS5044-01-4011
SPDIF-IN
PG 2
SER-DATA-IN
TTY-OUT
V_IDENT
3.0K
R108
RIGHT_INPUT
BYPASS 4559
PINS 8 AND 4
BYPASS
C117
.01
BYPASS
C118
.01
U101
MC74LCX244
SOIC
U102
MC74ACT244
SOIC
DSP1-RFS1
DSP1-RCLK1
DSP1-DR1
DSP2-IRQ1
DSP2-DT1
DSP1-FLAG1
DSP1-FLAG0
DSP2-FLAG1
DSP2-FLAG0
UC-CLP
DSP1-FLAG3
DSP1-FLAG2
DSP2-FLAG3
DSP2-FLAG2
RFS
SCLK-F
SDOUT1-F
SDIN1
U100
CS4226
PDN
SPI/IIC
LRCK
SCLK
SDIN1
SDIN2
SDIN3
SDOUT1
SDOUT2
LRCKAUX
SCLKAUX
DATAUX
DEM
HOLD
RX1
CS
CCLK
CDIN
CDOUT
OVL
CLKOUT
XT1
XTO
FILT
AOUT1
AOUT2
AOUT3
AOUT4
AOUT5
AOUT6
AGND2
AIN1L
AIN1R
AIN2L
AIN2R
AIN3L
AIN3R
AINAUX
CMOUT
VD+
VA+
TO uC
P50
LRCK-F
SCLK-F
SDIN1
SDIN2
SDIN3
SDOUT1-F
AIN1L
AIN1R
SCL
SDA
OVL-ERR
NEAR U100
TO DSP1
DSP1-IRQ2
U103
U104
TL074
1/4
1/2
4559
SHT 3
L-EQAUD
R-EQAUD
C-EQAUD
LS-EQAUD
RS-EQAUD
B-EQAUD
AMP-GND-SENSE
AOUT5-F
AOUT6-F
AOUT3-F
AOUT4-F
AOUT1-F
AOUT2-F
U106
MC74HC73
SOIC
SHIELD
SPDIF-IN2
NEAR J5
+17V-FUSED
J8-3
+10.9V
+5V-REG
PLACE UNDER CODEC PIN 19
PLACE UNDER CODEC PIN 40
NOTE: LARGE PADS FOR HEAT SINKING,D2 D3.
SHEET = 1
SAFETY CONTROLLED
BOSE
FRAMINGHAM, MA 01701-9168
AM-25/30P Series II
DSP PCB Assembly
Part Number 251571
NOTES:
Power supply voltages drop to zero when console is turned off.
Service Manual 199401 Sheet 1 of 5



NOTES:
Power supply voltages drop to zero when console is turned off.

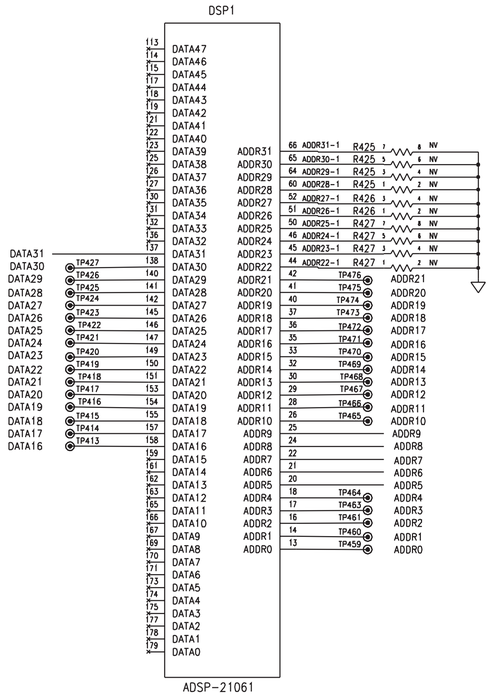


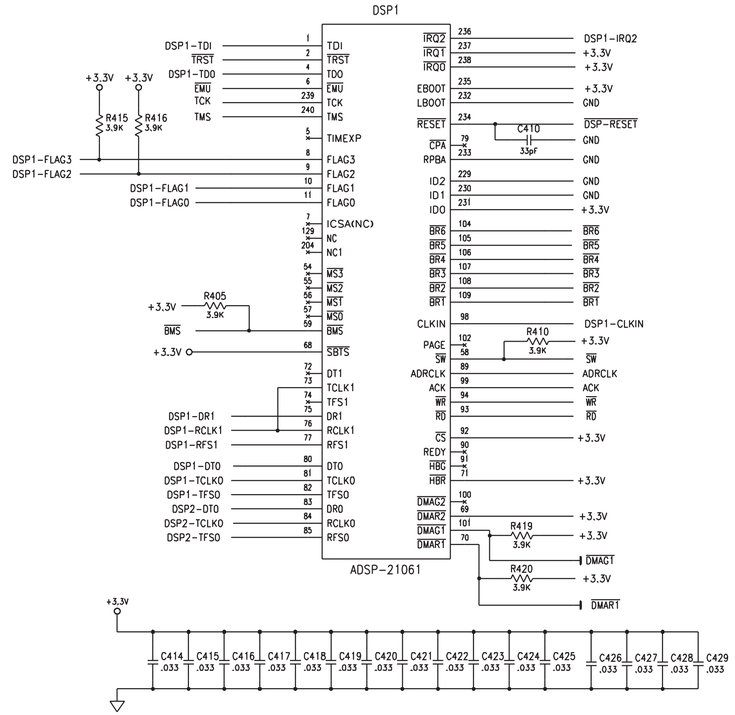


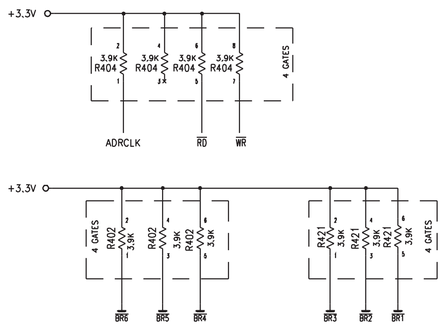


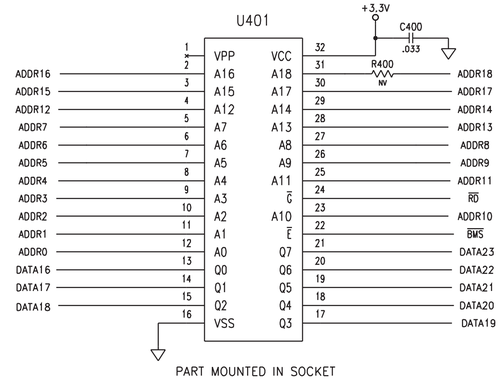
J4 145402-8
RT ANGLE TO AMP BD J10

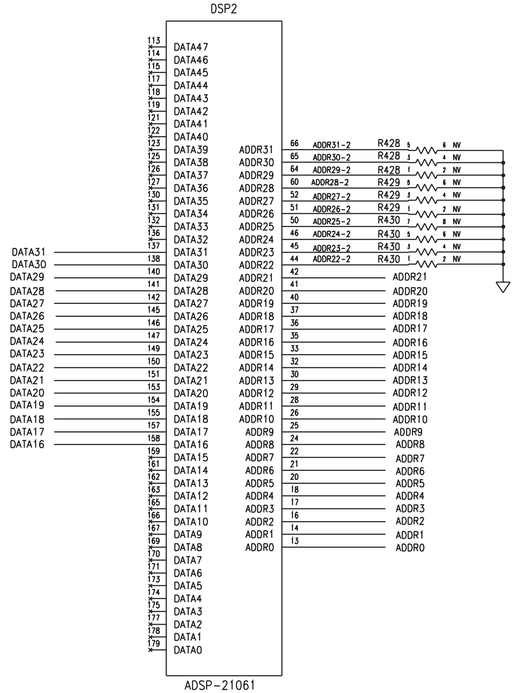
NOTES:
Power supply voltages drop to zero when console is turned off.

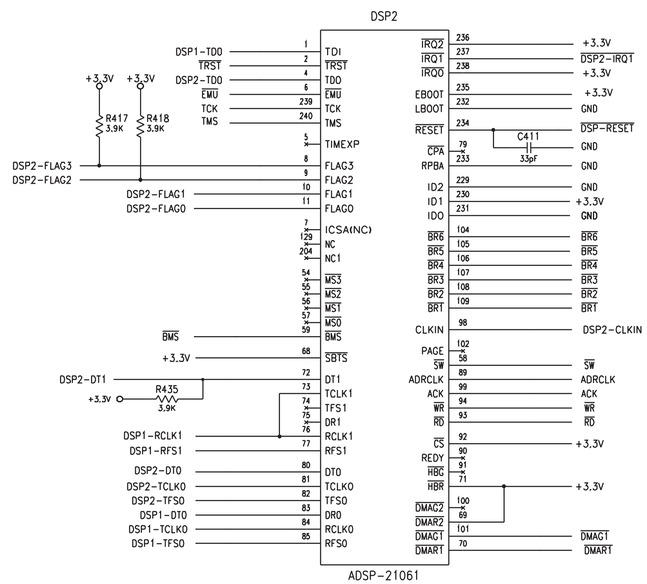


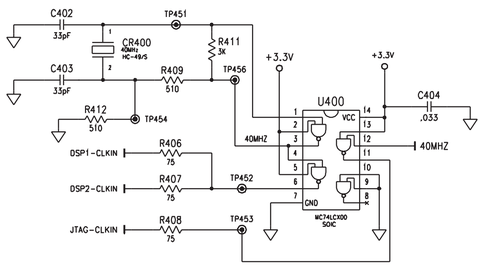


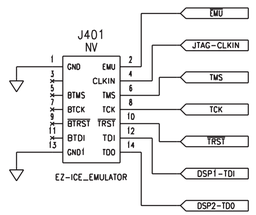




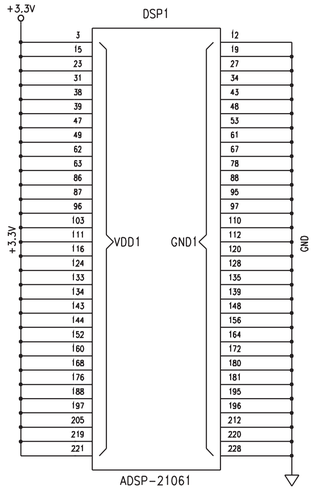


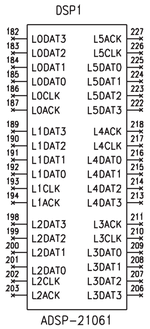


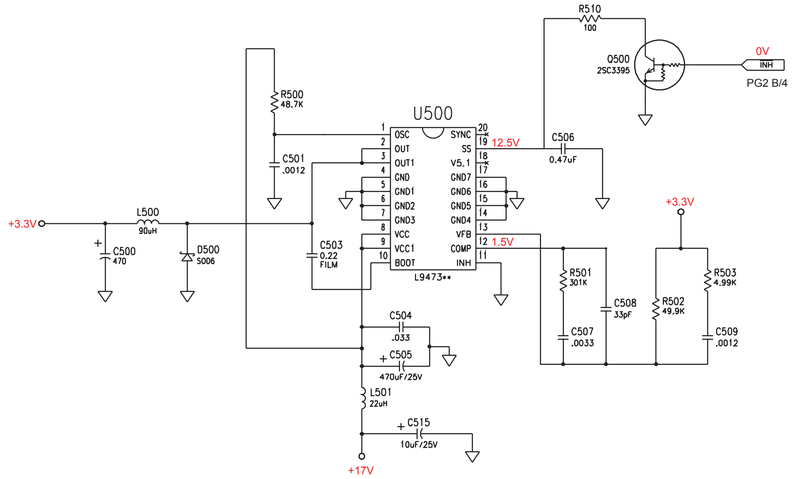




NOTES:
Power supply voltages drop to zero when console is turned off.





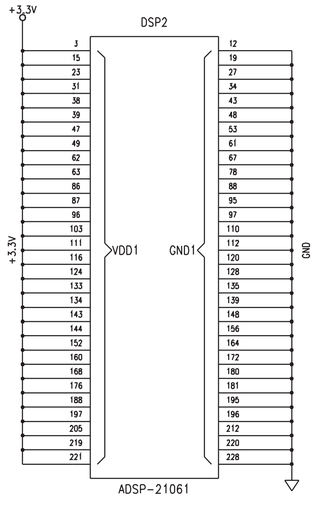


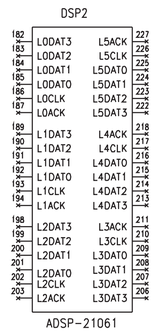
NOTE - At power down, 5V will be present at the base of Q500 for approximately 5 seconds to allow pin 19 of U500 to be pulled low, shutting off the regulator. The 3.3V supply is turned off as part of the normal power down sequence.

+17V-FUSED FROM J8-3

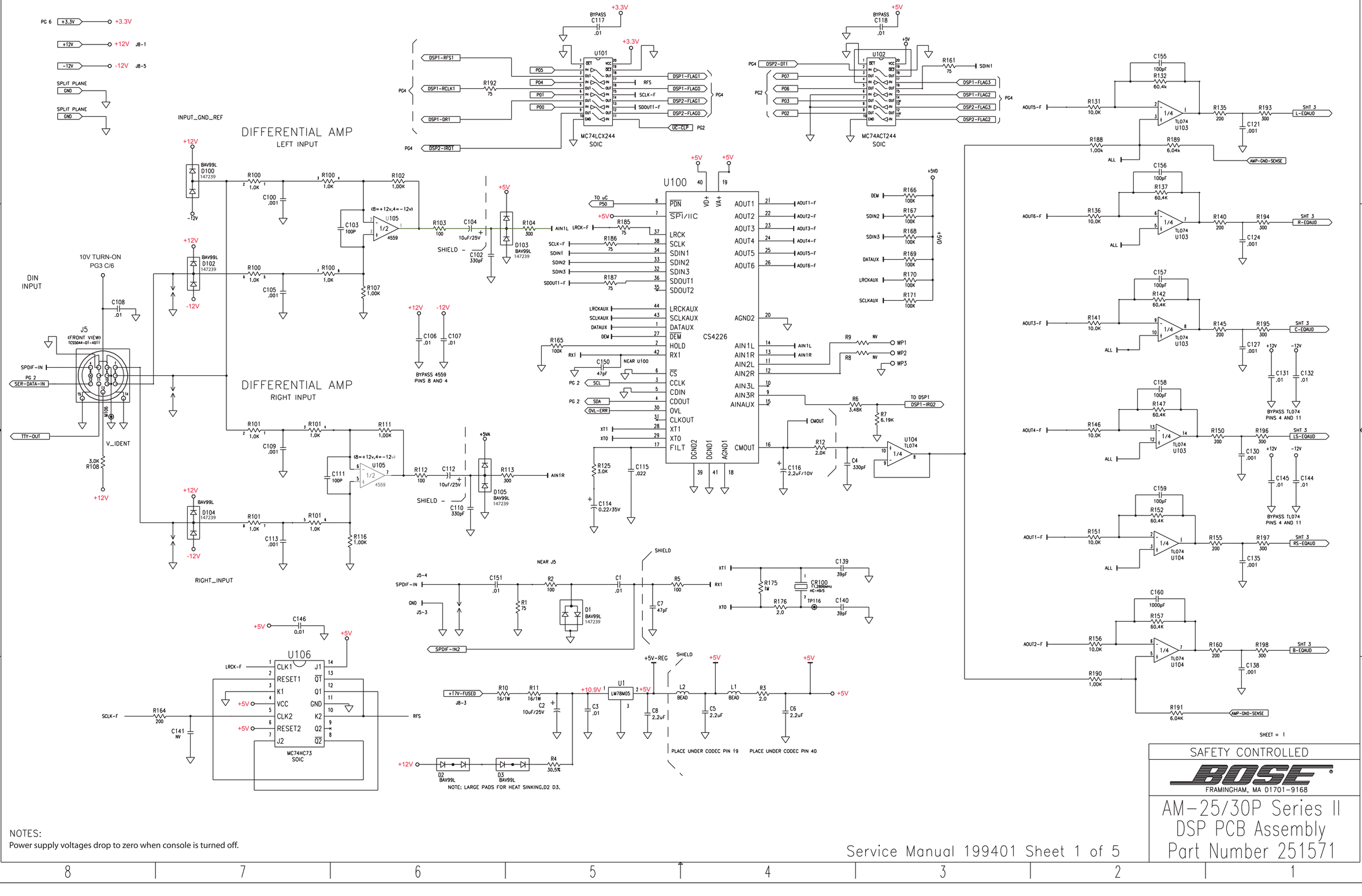
+3.3V

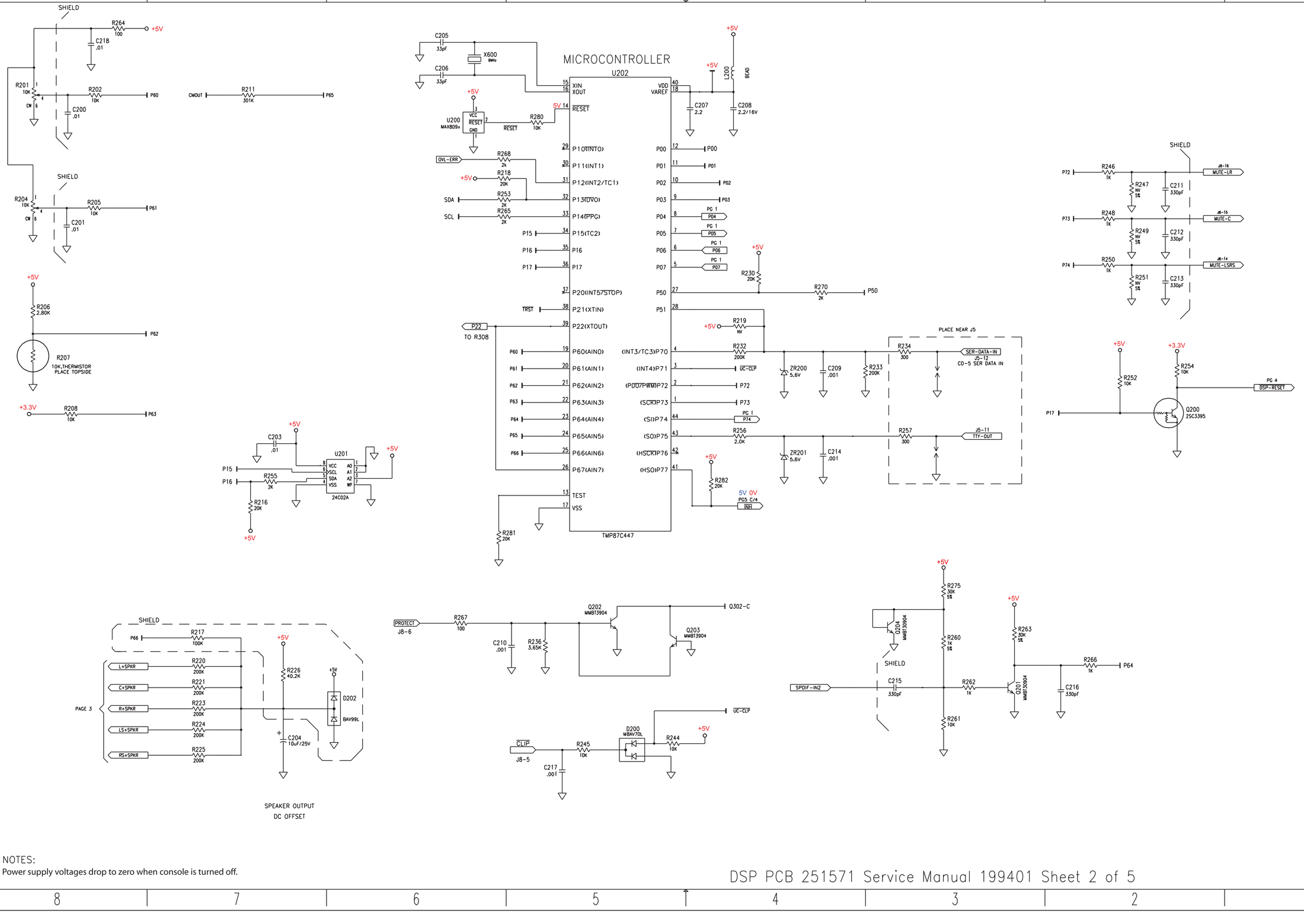
GND





NOTES:
Power supply voltages drop to zero when console is turned off.


PG 6 +3.3V
+12V JB-1
-12V JB-5
SPLIT PLANE GND
SPLIT PLANE GND
INPUT_GND_REF
DIFFERENTIAL AMP
LEFT INPUT
DIFFERENTIAL AMP
RIGHT INPUT
10V TURN-ON
PG3 C/6
DIN
INPUT
J5
(FRONT VIEW)
TCS5044-01-4011
SPDIF-IN
PG 2
SER-DATA-IN
TTY-OUT
V_IDENT
3.0K
R108
RIGHT_INPUT
BYPASS 4559
PINS 8 AND 4
BYPASS
C117
.01
BYPASS
C118
.01
U101
MC74LCX244
SOIC
U102
MC74ACT244
SOIC
DSP1-RFS1
DSP1-RCLK1
DSP1-DR1
DSP2-IRQ1
DSP2-DT1
DSP1-FLAG1
DSP1-FLAG0
DSP2-FLAG1
DSP2-FLAG0
UC-CLP
DSP1-FLAG3
DSP1-FLAG2
DSP2-FLAG3
DSP2-FLAG2
RFS
SCLK-F
SDOUT1-F
SDIN1
U100
CS4226
PDN
SPI/IIC
LRCK
SCLK
SDIN1
SDIN2
SDIN3
SDOUT1
SDOUT2
LRCKAUX
SCLKAUX
DATAUX
DEM
HOLD
RX1
CS
CCLK
CDIN
CDOUT
OVL
CLKOUT
XT1
XTO
FILT
AOUT1
AOUT2
AOUT3
AOUT4
AOUT5
AOUT6
AGND2
AIN1L
AIN1R
AIN2L
AIN2R
AIN3L
AIN3R
AINAUX
CMOUT
VD+
VA+
TO uC
P50
LRCK-F
SCLK-F
SDIN1
SDIN2
SDIN3
SDOUT1-F
AIN1L
AIN1R
SCL
SDA
OVL-ERR
NEAR U100
TO DSP1
DSP1-IRQ2
U103
U104
TL074
1/4
1/2
4559
SHT 3
L-EQAUD
R-EQAUD
C-EQAUD
LS-EQAUD
RS-EQAUD
B-EQAUD
AMP-GND-SENSE
AOUT5-F
AOUT6-F
AOUT3-F
AOUT4-F
AOUT1-F
AOUT2-F
U106
MC74HC73
SOIC
SHIELD
SPDIF-IN2
NEAR J5
+17V-FUSED
J8-3
+10.9V
+5V-REG
PLACE UNDER CODEC PIN 19
PLACE UNDER CODEC PIN 40
NOTE: LARGE PADS FOR HEAT SINKING,D2 D3.
SHEET = 1
SAFETY CONTROLLED
BOSE
FRAMINGHAM, MA 01701-9168
AM-25/30P Series II
DSP PCB Assembly
Part Number 251571
NOTES:
Power supply voltages drop to zero when console is turned off.
Service Manual 199401 Sheet 1 of 5



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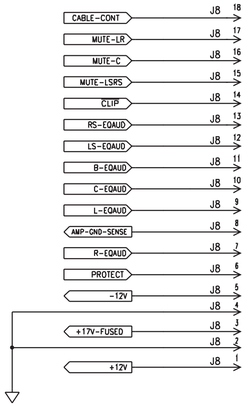

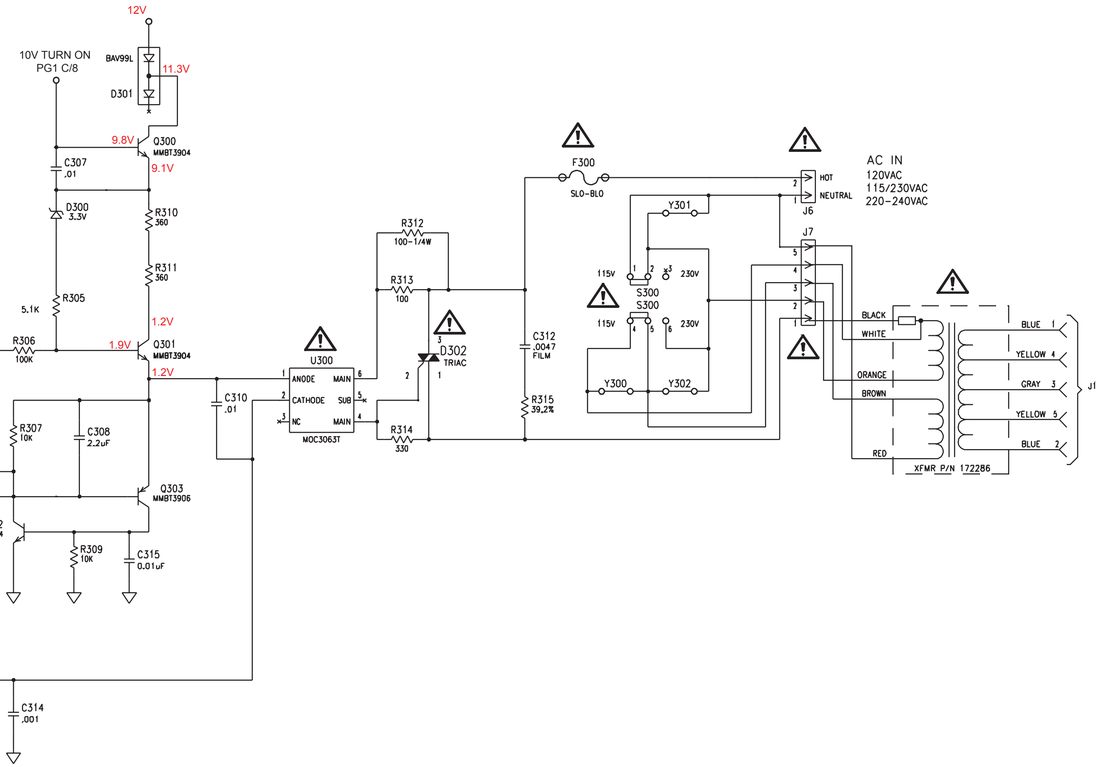

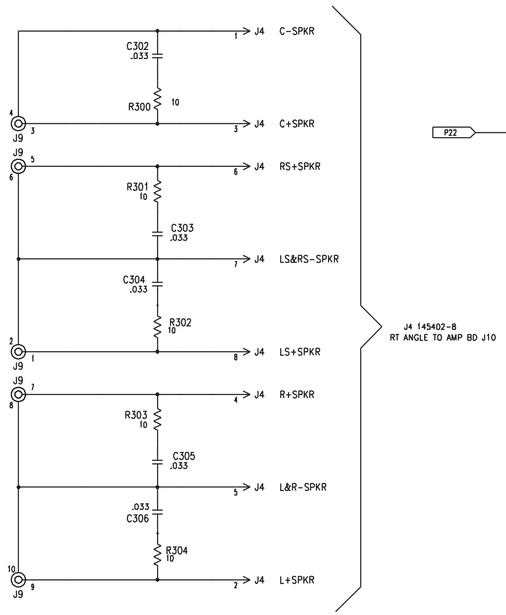

J4 145402-8
RT ANGLE TO AMP BD J10

NOTES:
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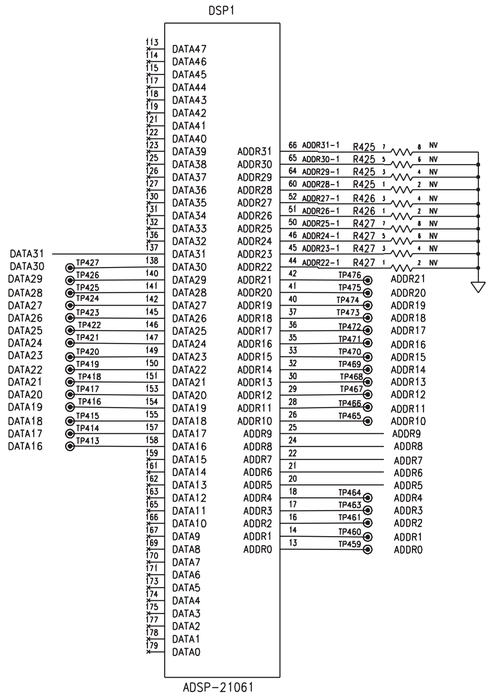

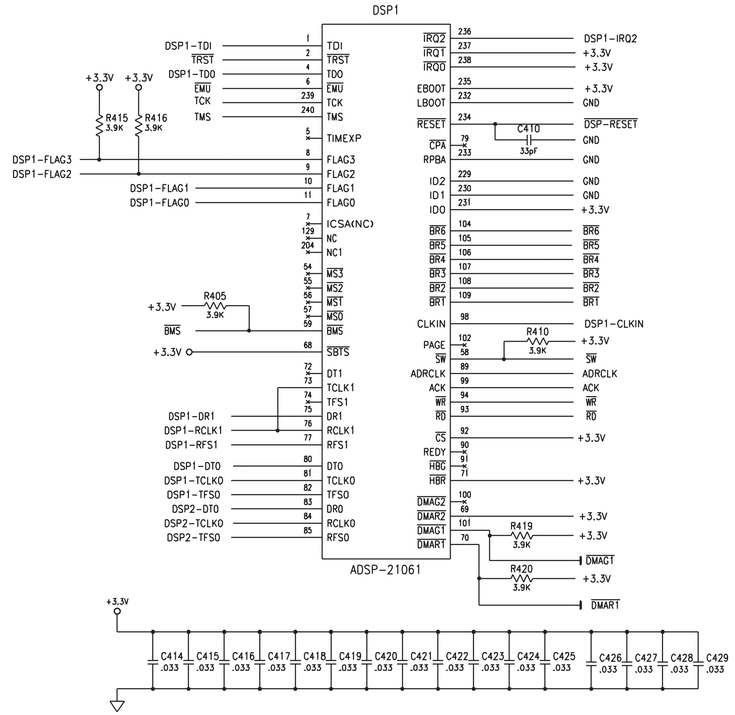

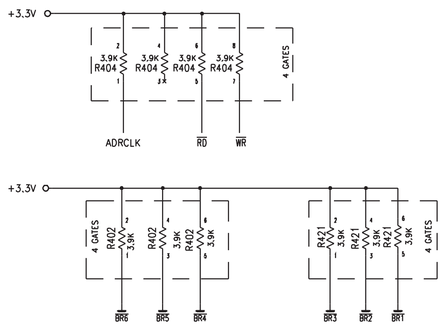

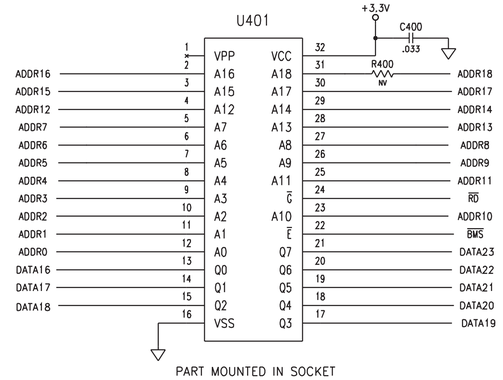

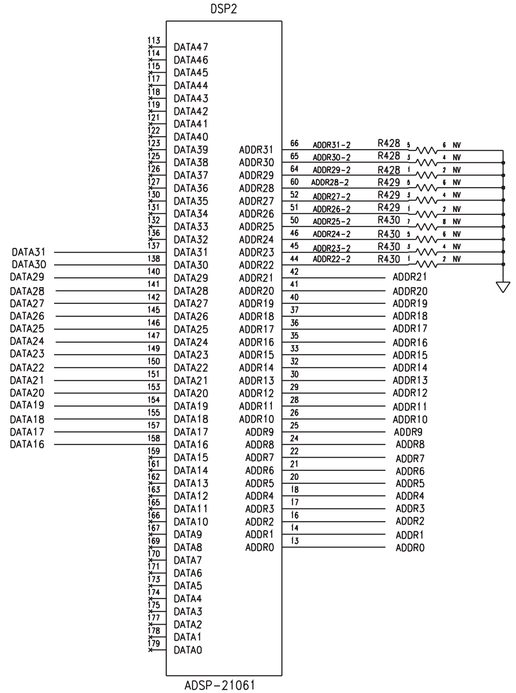

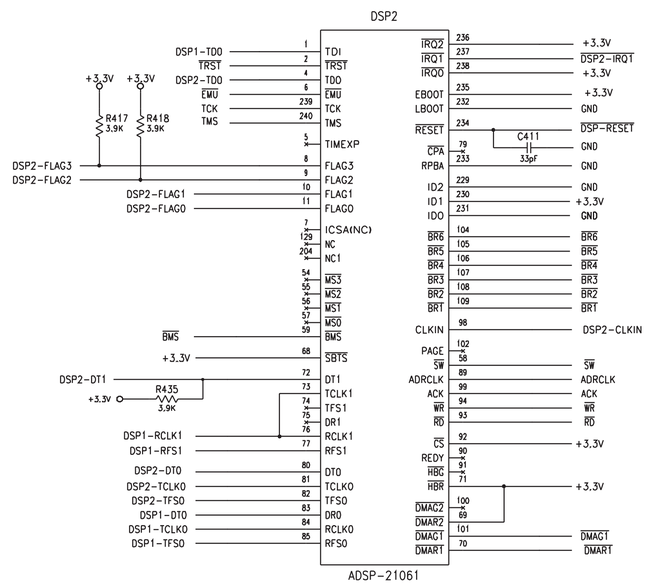

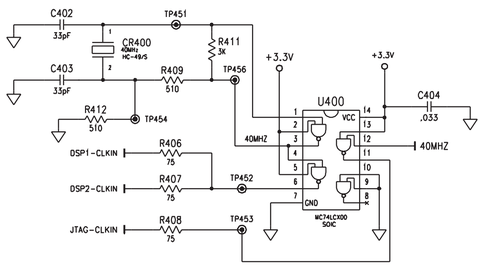

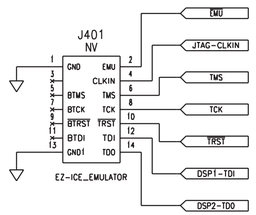

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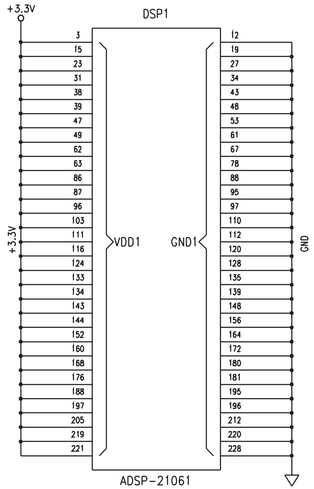

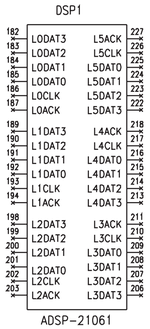

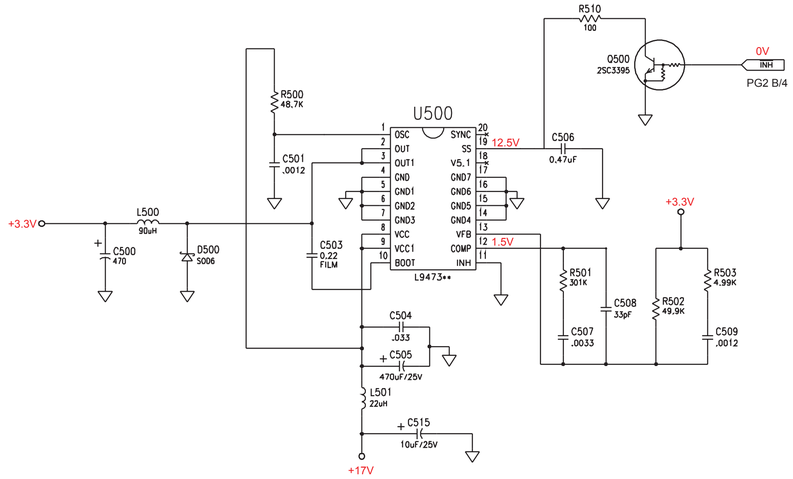

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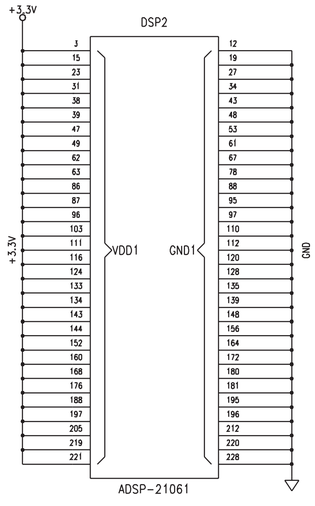
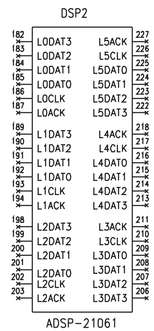
+17V-FUSED FROM J8-3

+3.3V

GND





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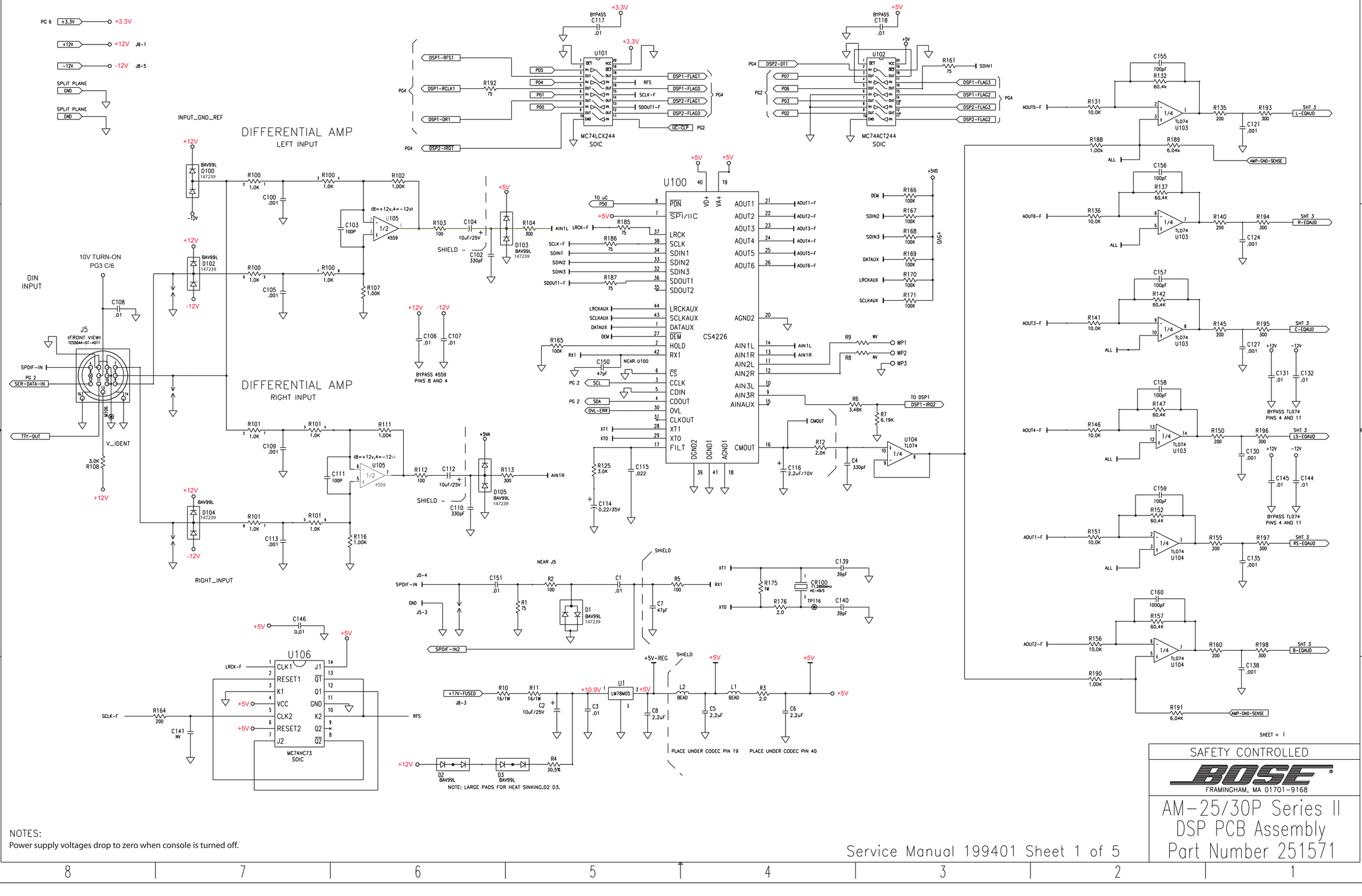
PG 6 +3.3V
+12V JB-1
-12V JB-5
SPLIT PLANE GND
SPLIT PLANE GND
INPUT_GND_REF
DIFFERENTIAL AMP
LEFT INPUT
DIFFERENTIAL AMP
RIGHT INPUT
10V TURN-ON
PG3 C/6
DIN
INPUT
J5
(FRONT VIEW)
TCS5044-01-4011
SPDIF-IN
PG 2
SER-DATA-IN
TTY-OUT
V_IDENT
3.0K
R108
RIGHT_INPUT
BYPASS 4559
PINS 8 AND 4
BYPASS
C117
.01
BYPASS
C118
.01
U101
MC74LCX244
SOIC
U102
MC74ACT244
SOIC
DSP1-RFS1
DSP1-RCLK1
DSP1-DR1
DSP2-IRQ1
DSP2-DT1
DSP1-FLAG1
DSP1-FLAG0
DSP2-FLAG1
DSP2-FLAG0
UC-CLP
DSP1-FLAG3
DSP1-FLAG2
DSP2-FLAG3
DSP2-FLAG2
RFS
SCLK-F
SDOUT1-F
SDIN1
U100
CS4226
PDN
SPI/IIC
LRCK
SCLK
SDIN1
SDIN2
SDIN3
SDOUT1
SDOUT2
LRCKAUX
SCLKAUX
DATAUX
DEM
HOLD
RX1
CS
CCLK
CDIN
CDOUT
OVL
CLKOUT
XT1
XTO
FILT
AOUT1
AOUT2
AOUT3
AOUT4
AOUT5
AOUT6
AGND2
AIN1L
AIN1R
AIN2L
AIN2R
AIN3L
AIN3R
AINAUX
CMOUT
VD+
VA+
TO uC
P50
LRCK-F
SCLK-F
SDIN1
SDIN2
SDIN3
SDOUT1-F
AIN1L
AIN1R
SCL
SDA
OVL-ERR
NEAR U100
TO DSP1
DSP1-IRQ2
U103
U104
TL074
1/4
1/2
4559
SHT 3
L-EQAUD
R-EQAUD
C-EQAUD
LS-EQAUD
RS-EQAUD
B-EQAUD
AMP-GND-SENSE
AOUT5-F
AOUT6-F
AOUT3-F
AOUT4-F
AOUT1-F
AOUT2-F
U106
MC74HC73
SOIC
SHIELD
SPDIF-IN2
NEAR J5
+17V-FUSED
J8-3
+10.9V
+5V-REG
PLACE UNDER CODEC PIN 19
PLACE UNDER CODEC PIN 40
NOTE: LARGE PADS FOR HEAT SINKING,D2 D3.
SHEET = 1
SAFETY CONTROLLED
BOSE
FRAMINGHAM, MA 01701-9168
AM-25/30P Series II
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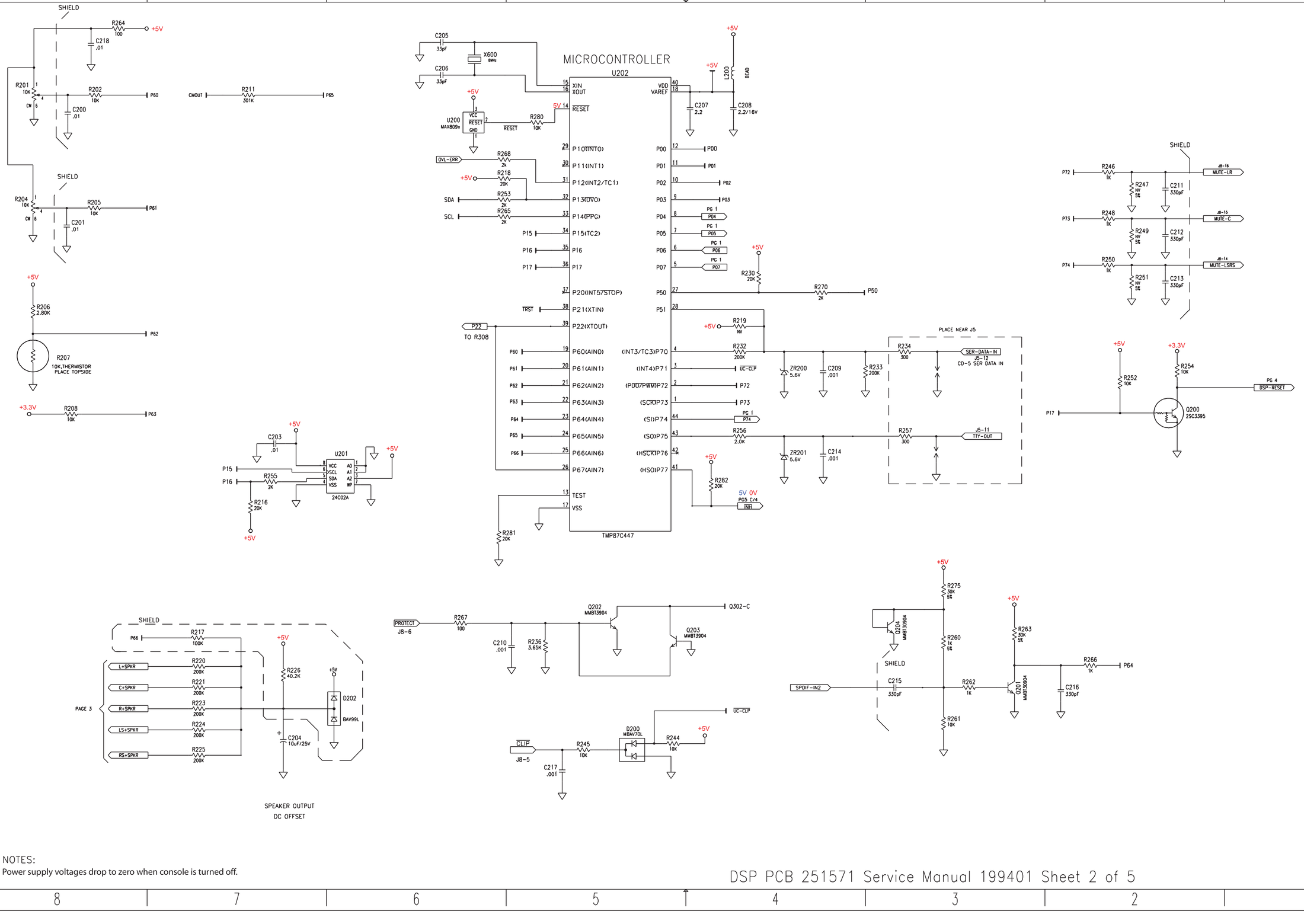
NOTES:
Power supply voltages drop to zero when console is turned off.
Service Manual 199401 Sheet 1 of 5



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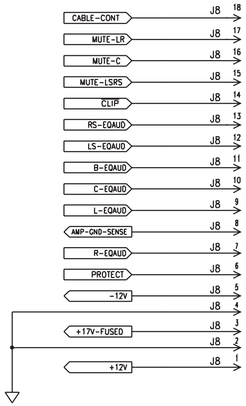
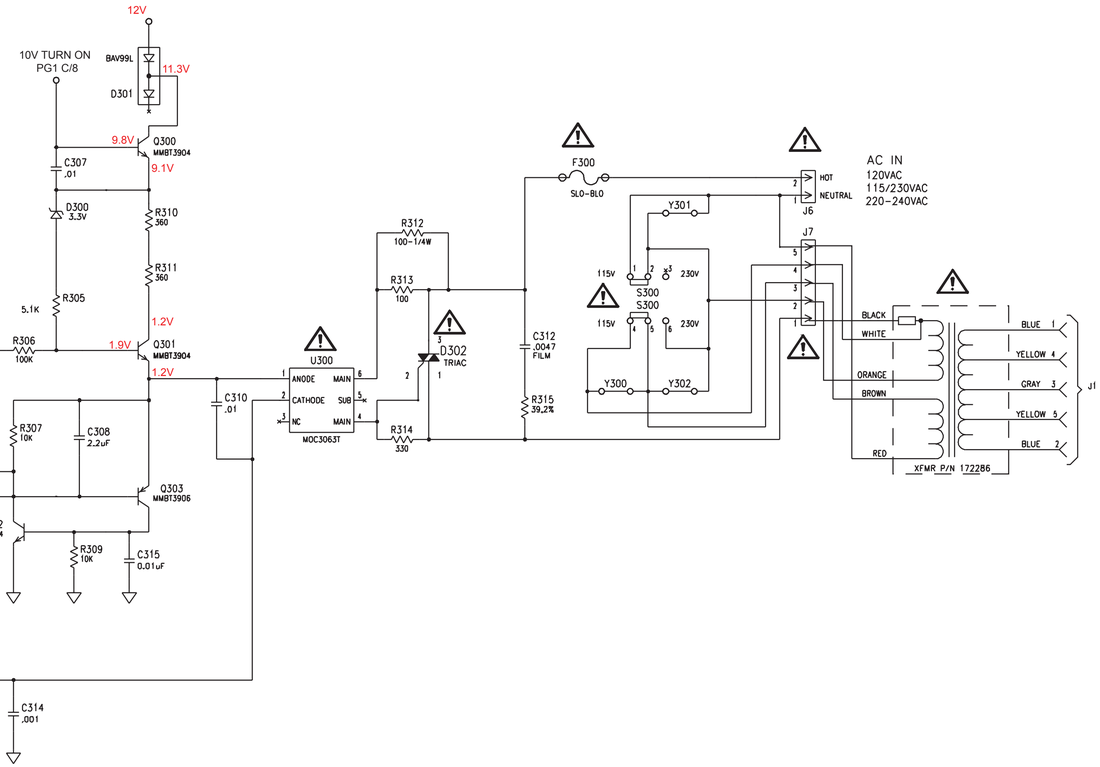
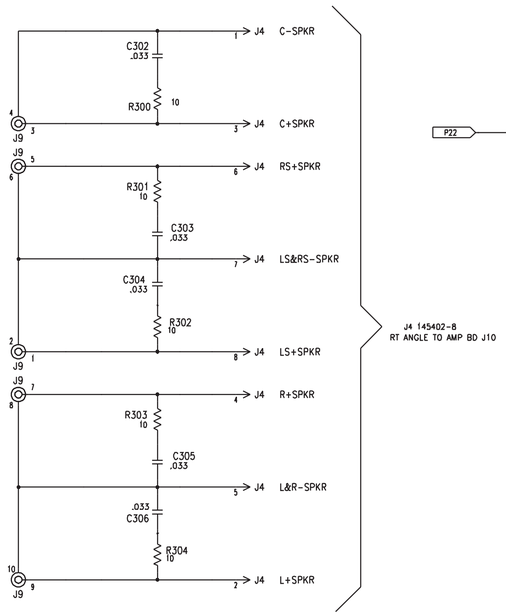
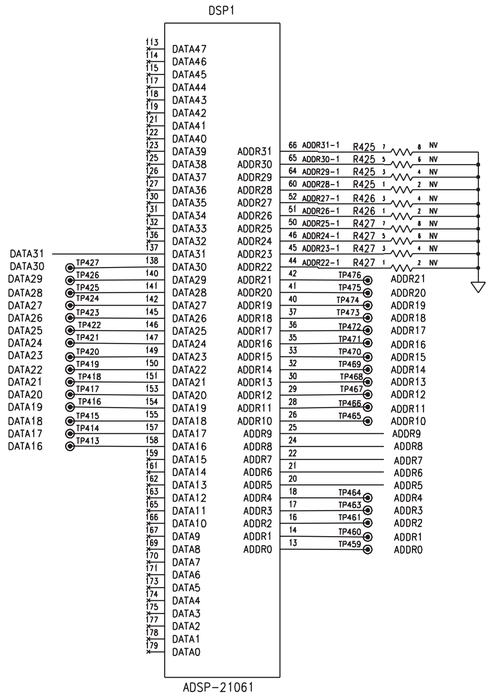


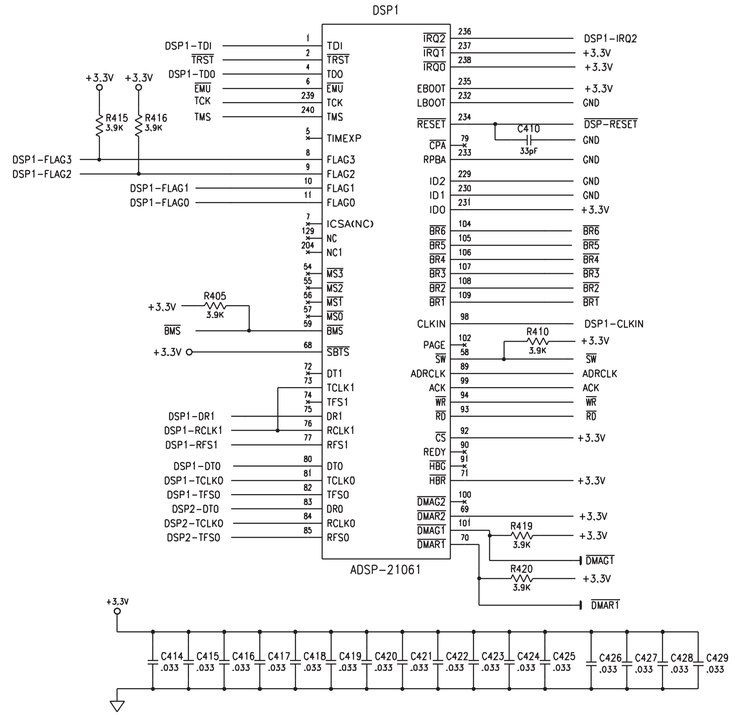


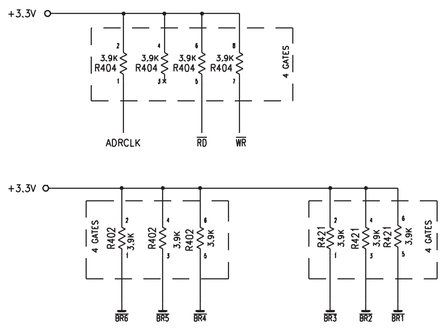


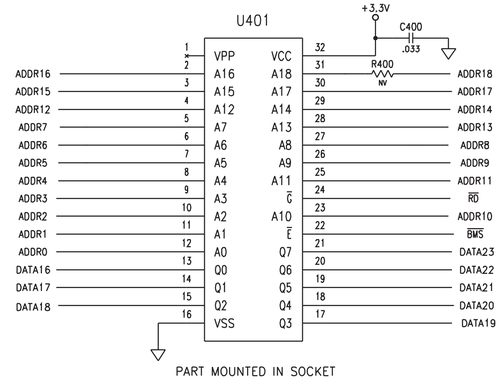
J4 145402-8
RT ANGLE TO AMP BD J10

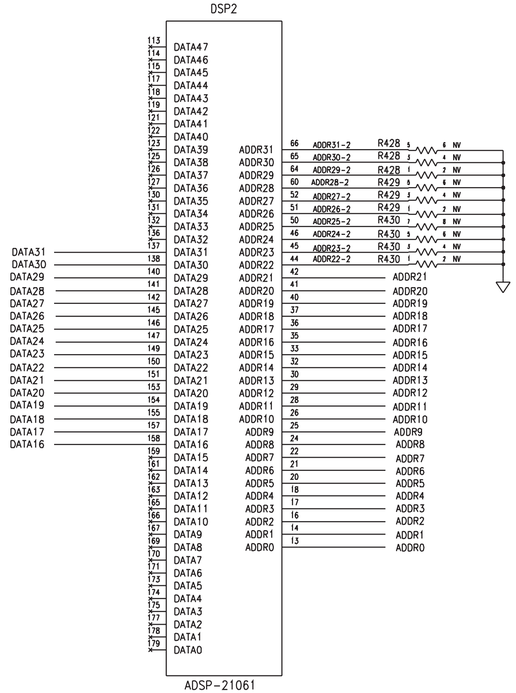
NOTES:
Power supply voltages drop to zero when console is turned off.

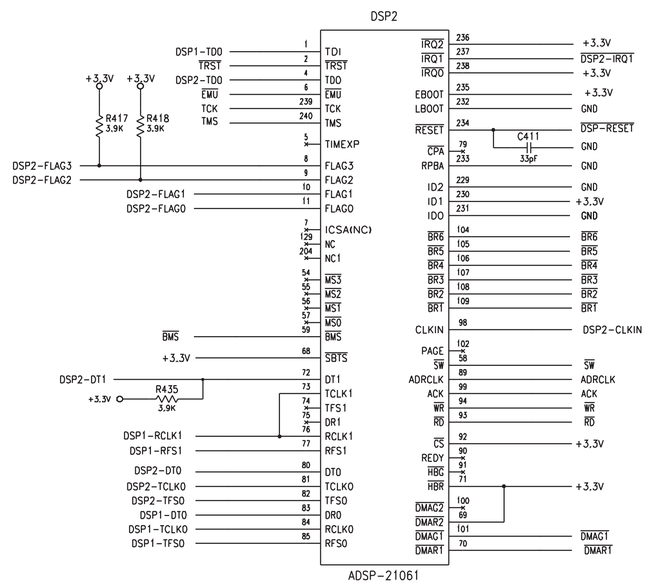


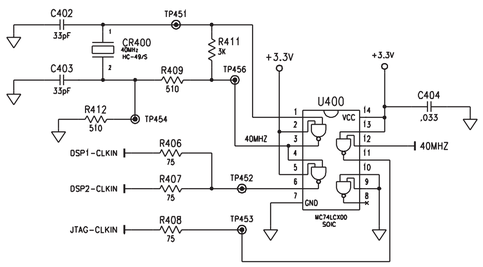


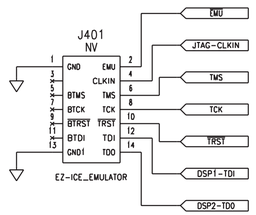




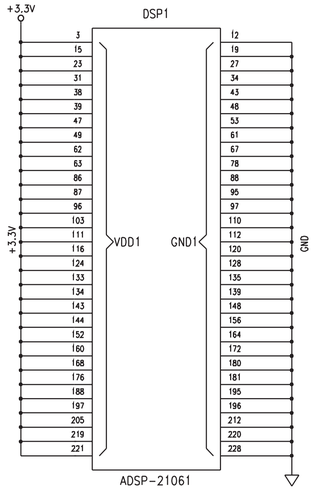


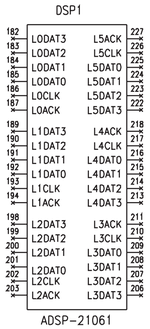


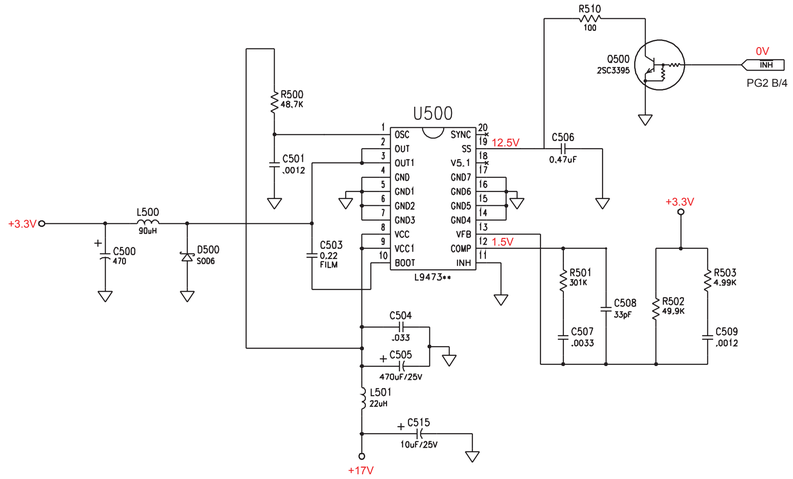




NOTES:
Power supply voltages drop to zero when console is turned off.





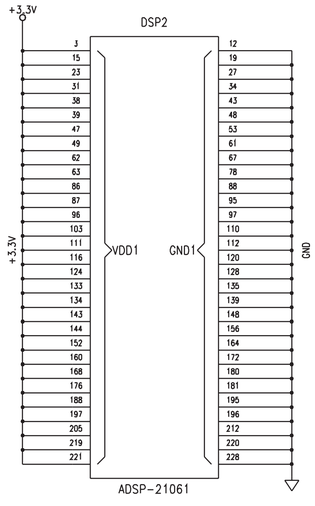


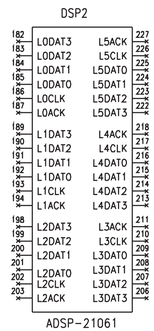
NOTE - At power down, 5V will be present at the base of Q500 for approximately 5 seconds to allow pin 19 of U500 to be pulled low, shutting off the regulator. The 3.3V supply is turned off as part of the normal power down sequence.

+17V-FUSED FROM J8-3

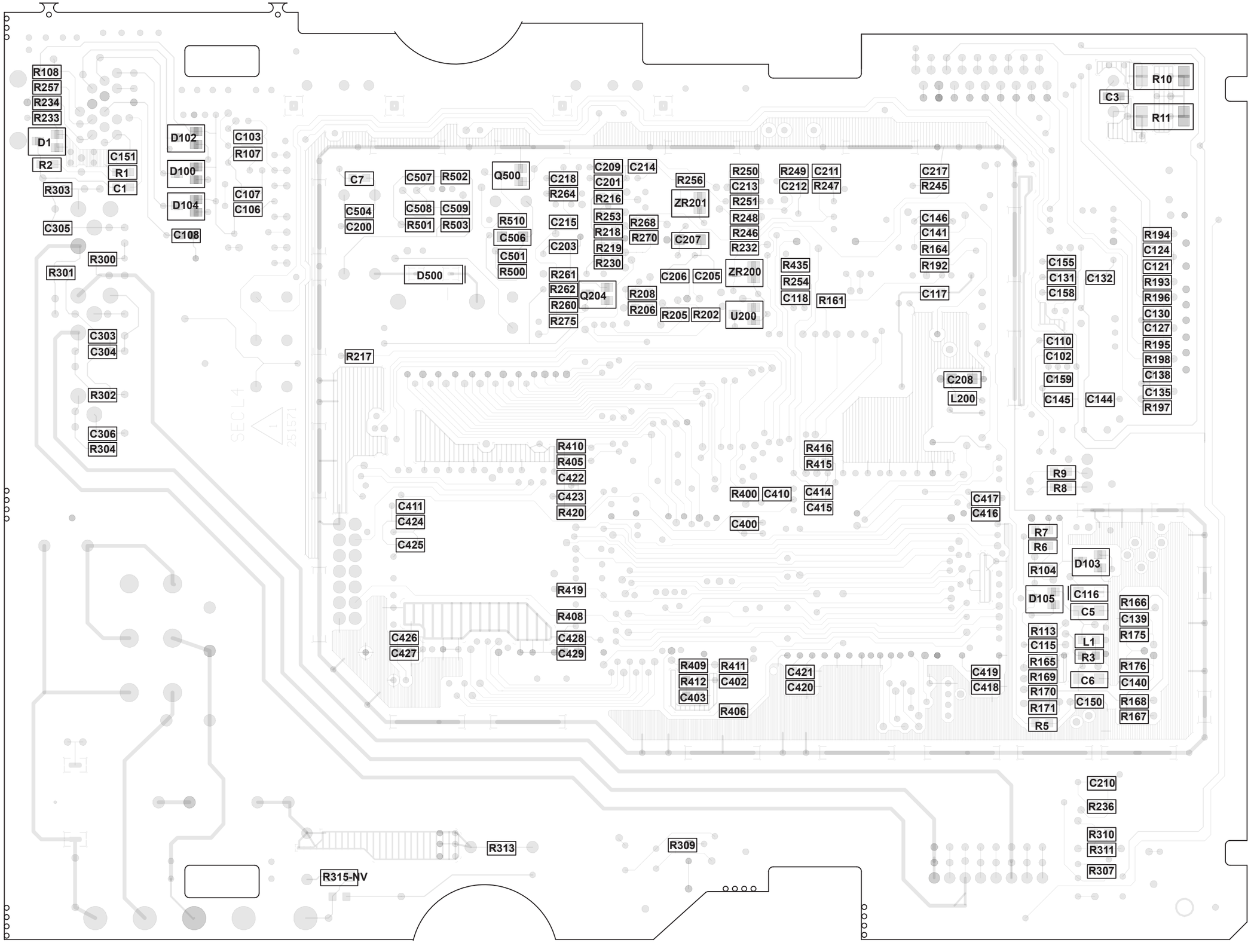
+3.3V

GND





NOTES:
Power supply voltages drop to zero when console is turned off.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C306
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D100
D104
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C103
R107
C107
C106
C7
C504
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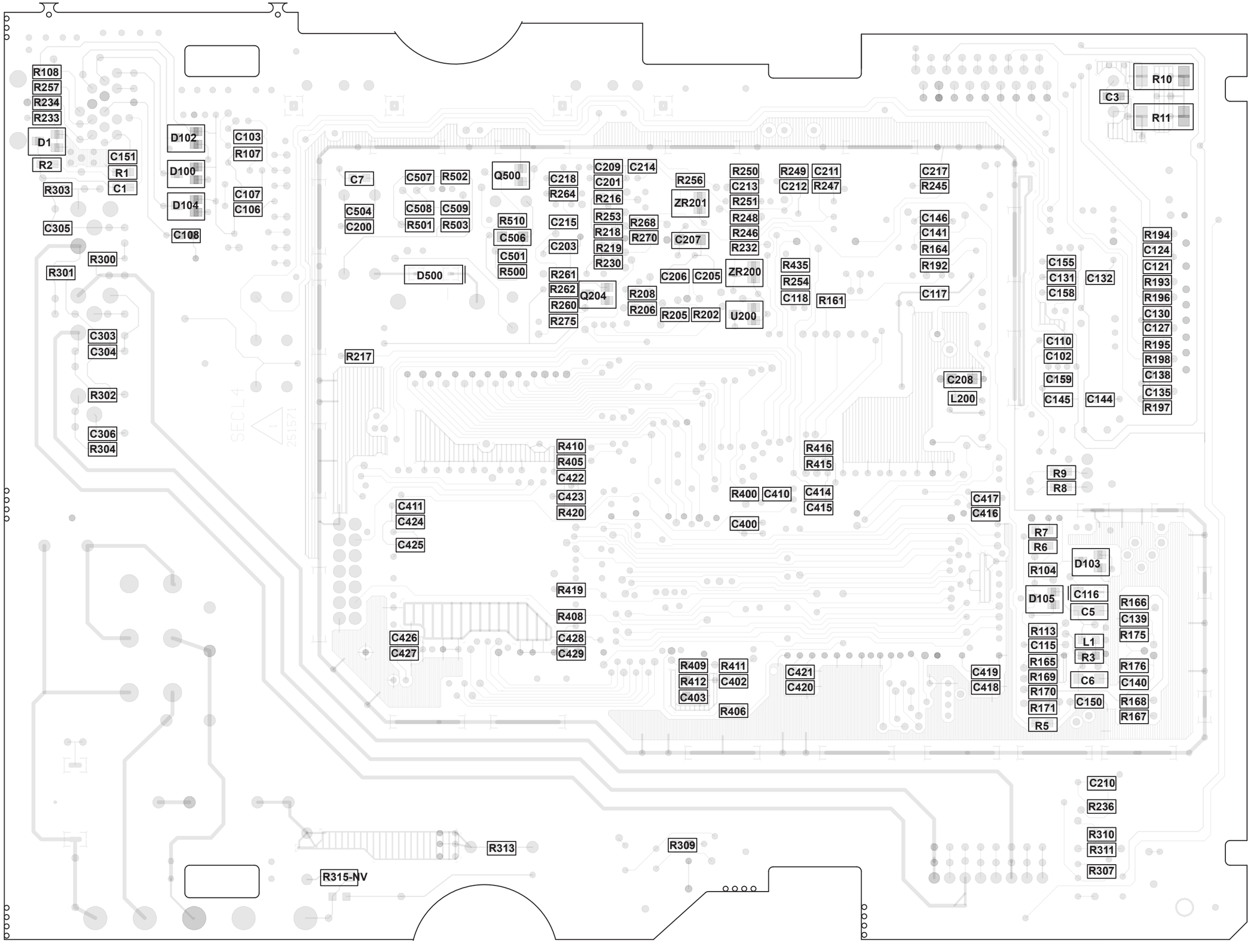
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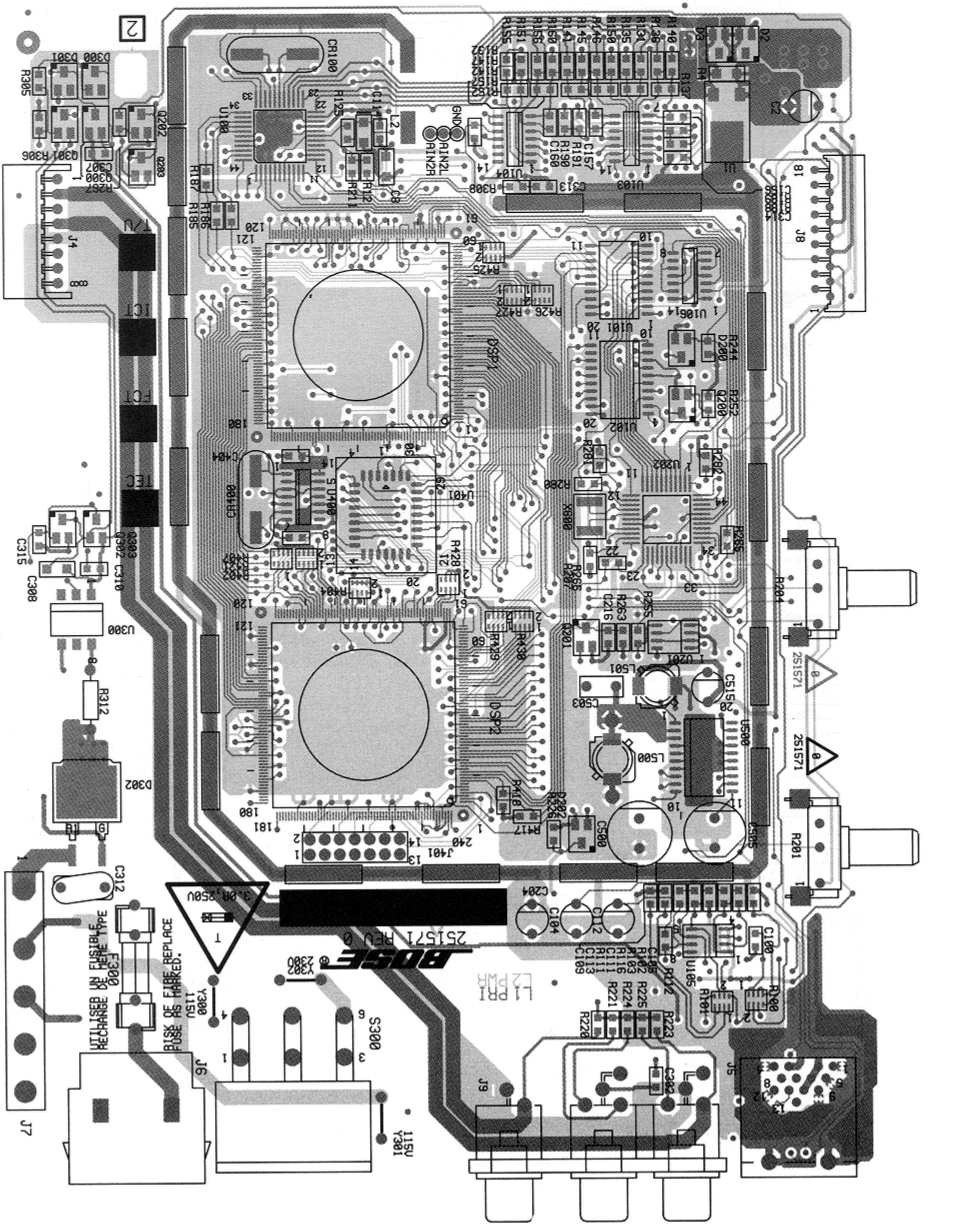
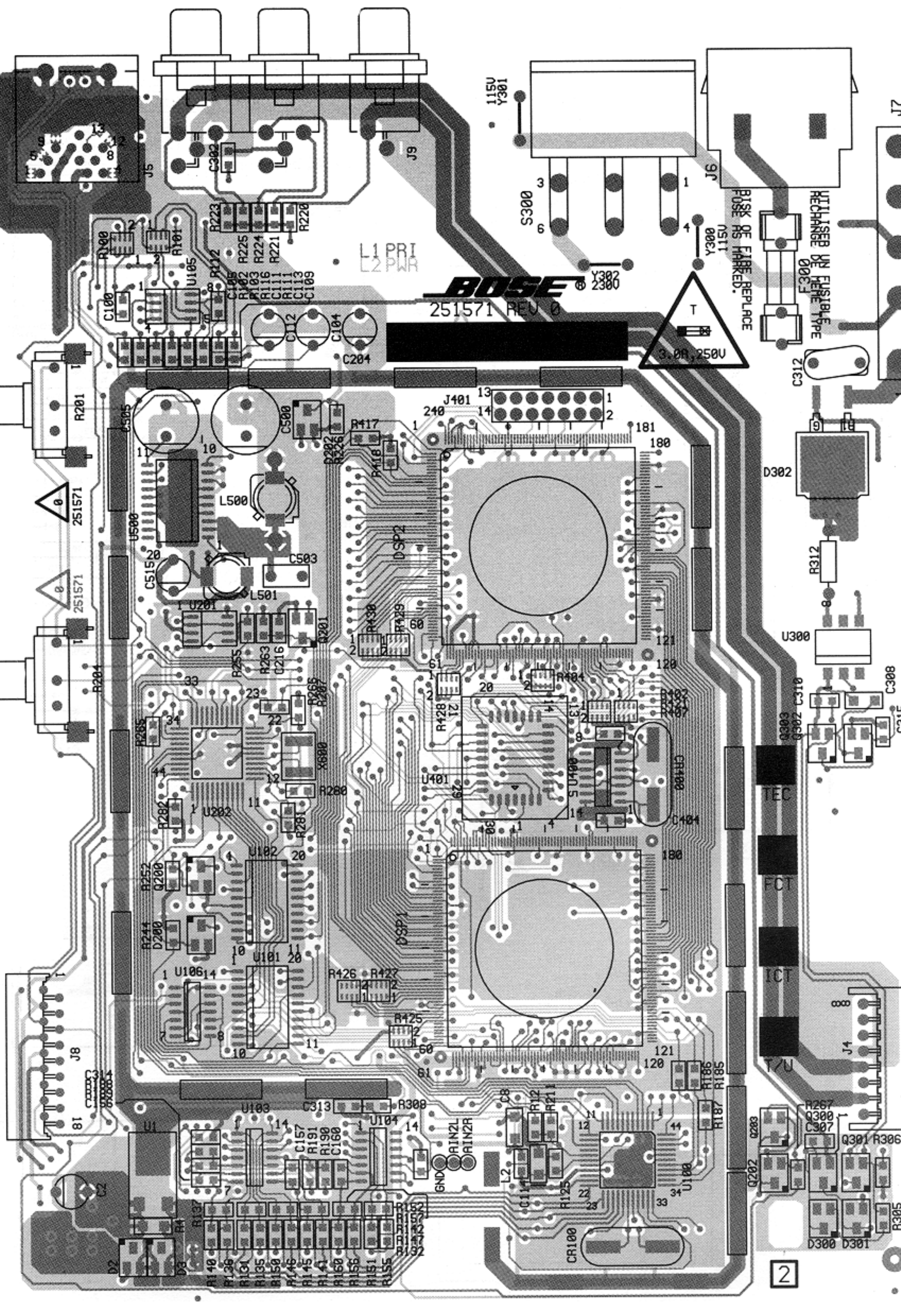


RISK OF FIRE REPLACE FUSE AS MARKED.
UTILISER UN FUSIBLE DE RECHANGE DE MEME TYPE
3.0A,250V
251571 REV 0



BOSE
251571 REV 0
L1 PRI
L2 PWR
3.0A,250V
RISK OF FIRE REPLACE
FUSE AS MARKED.
UTILISER UN FUSIBLE
RECHANGE DE MEME TYPE
F300
S300
Y300 115V
Y301 115V
Y302 230V
J4
J5
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J7
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J9
J401
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U1
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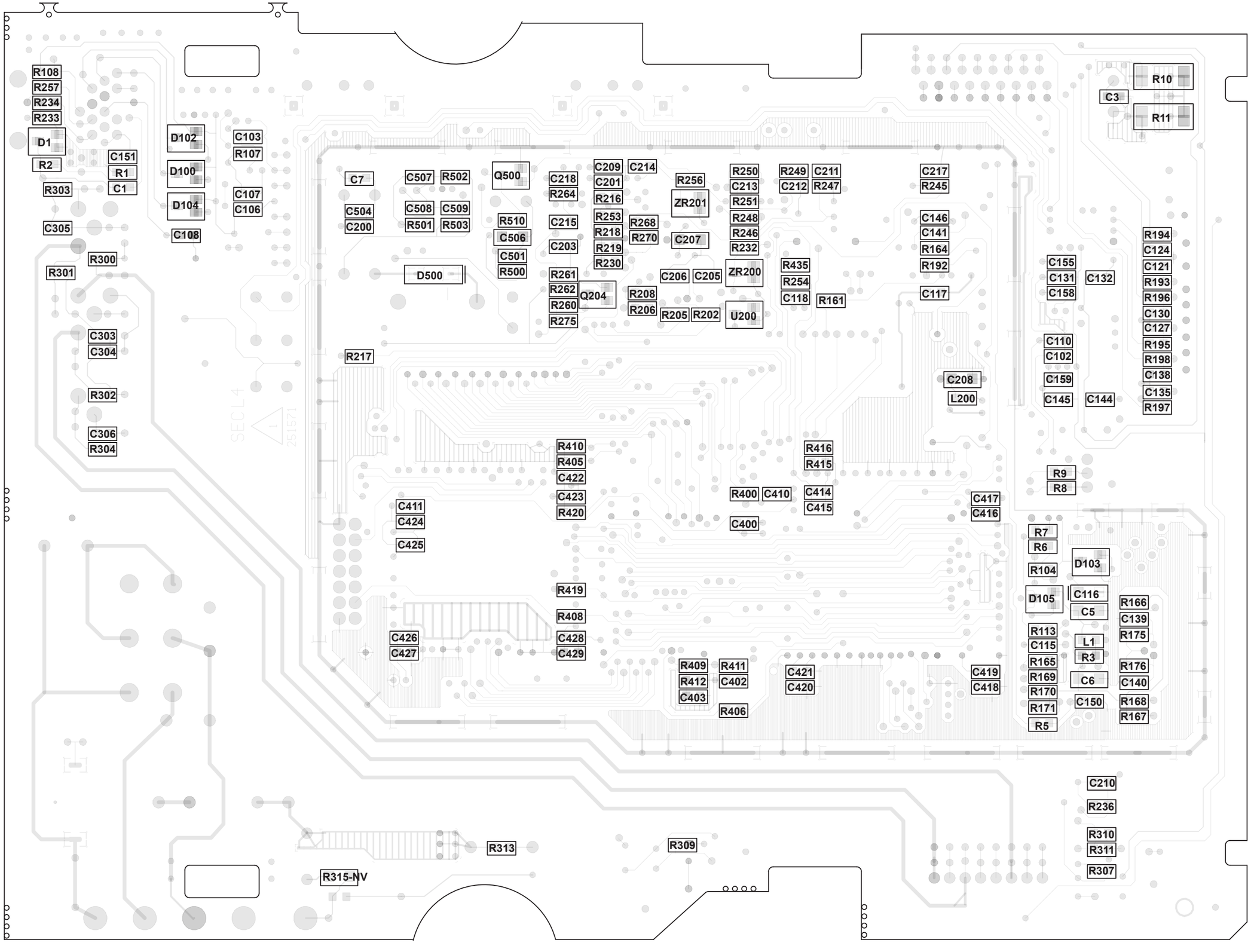
2


R108
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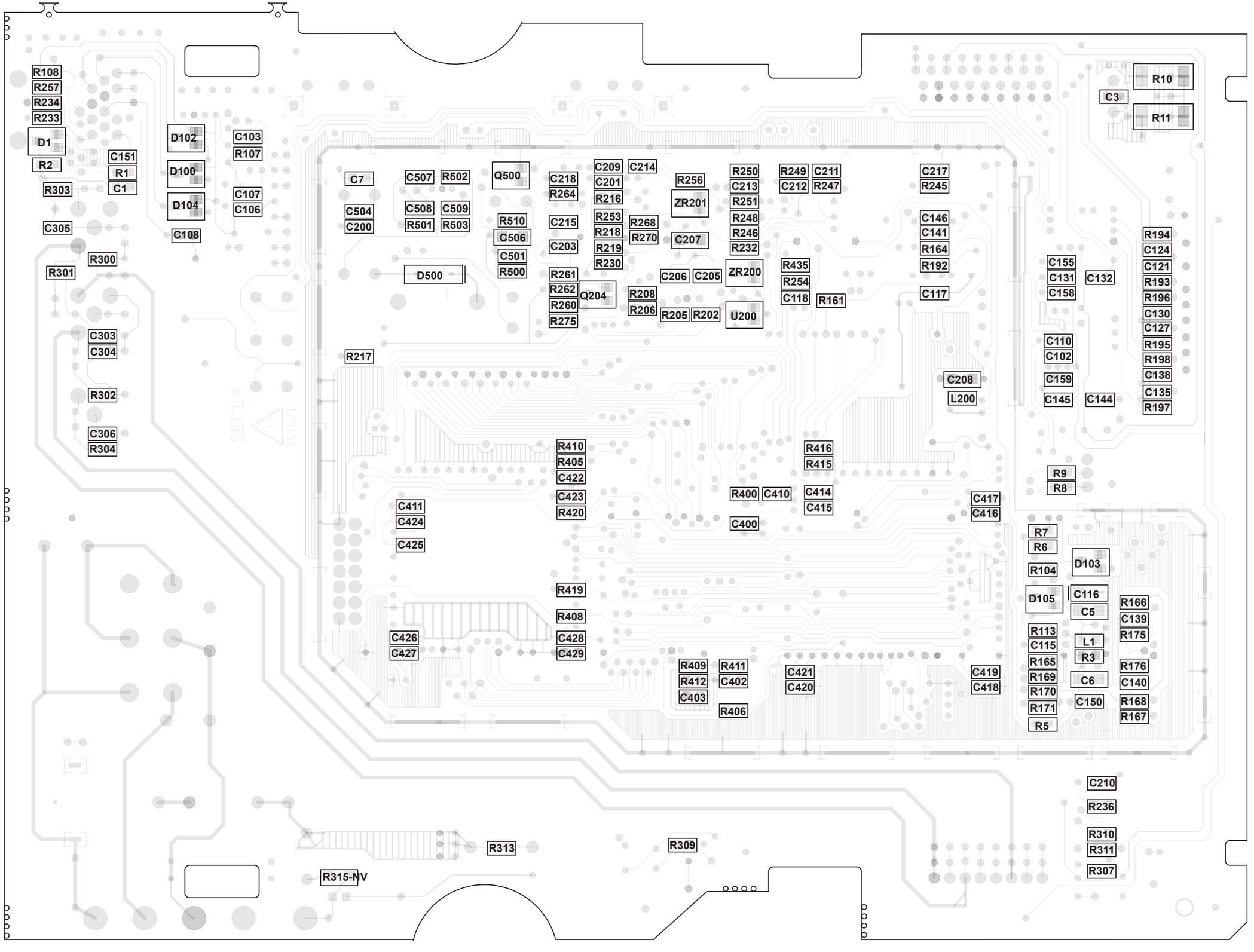
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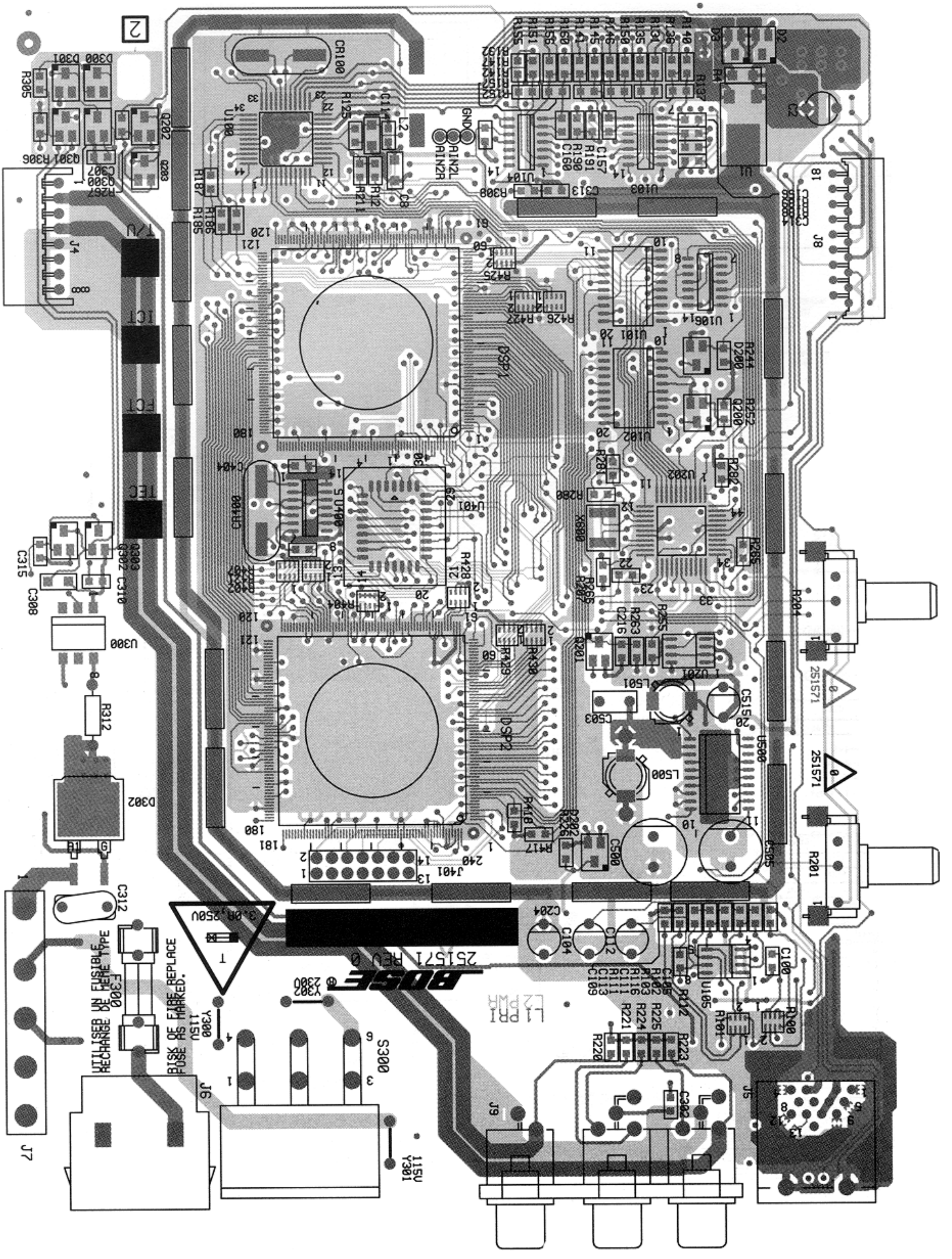
251571 REV 0
BOSE
3.0A,250V
RISK OF FIRE REPLACE FUSE AS MARKED.
UTILISER UN FUSIBLE DE RECHANGE DE MEME TYPE
F300
S300
J6
J7
J9
J5
J4
J8
DSP1
DSP2
T/U
ICT
FCT
TEC
115V
230V