

8	7	6	5	4	3	2	1
NOTES: (UNLESS OTHERWISE NOTED)					REV ZONE ECN	DESCRIPTION OF REVISION	CK APPD ENG APPD DATE DATE

1. ALL RESISTANCE VALUES ARE ON OHMS, 0.1W, $\pm 5\%$.
 2. ALL CAPACITANCE VALUES ARE IN MICROFARADS.

A	31055	PRODUCTION RELEASE J.K. 5/95
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REFERENCE DESIGNATIONS	
LAST USED	NOT USED
BT1	
C576	C75-76 C98 C100 C111 C122 C129 C131 C135 C144 C185-186 C188 C229 C233-500 C519-575
D101	D4-99
DZ3	
F2	
FL10	
G5	
G4A0	G4A1--1
G5A0	G5A1--1
J21	
L502	L21-499
LP1	
Q7	
R554	R80 R83-85 R92 R99 R154-499 R505-506 R512 R515-518 R531-550
RP16	
S1	
T100	T2-99
TP477	TP43 TP51-52 TP74 TP145-152 TP309 TP311 TP468
U108	U20 U22 U48 U50-99 U101
VR3	
Y4	Y3

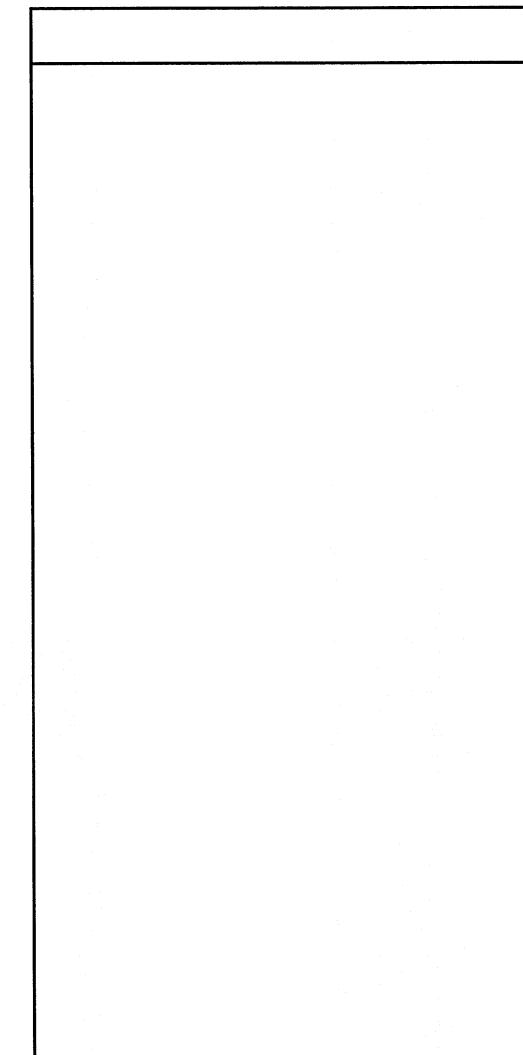
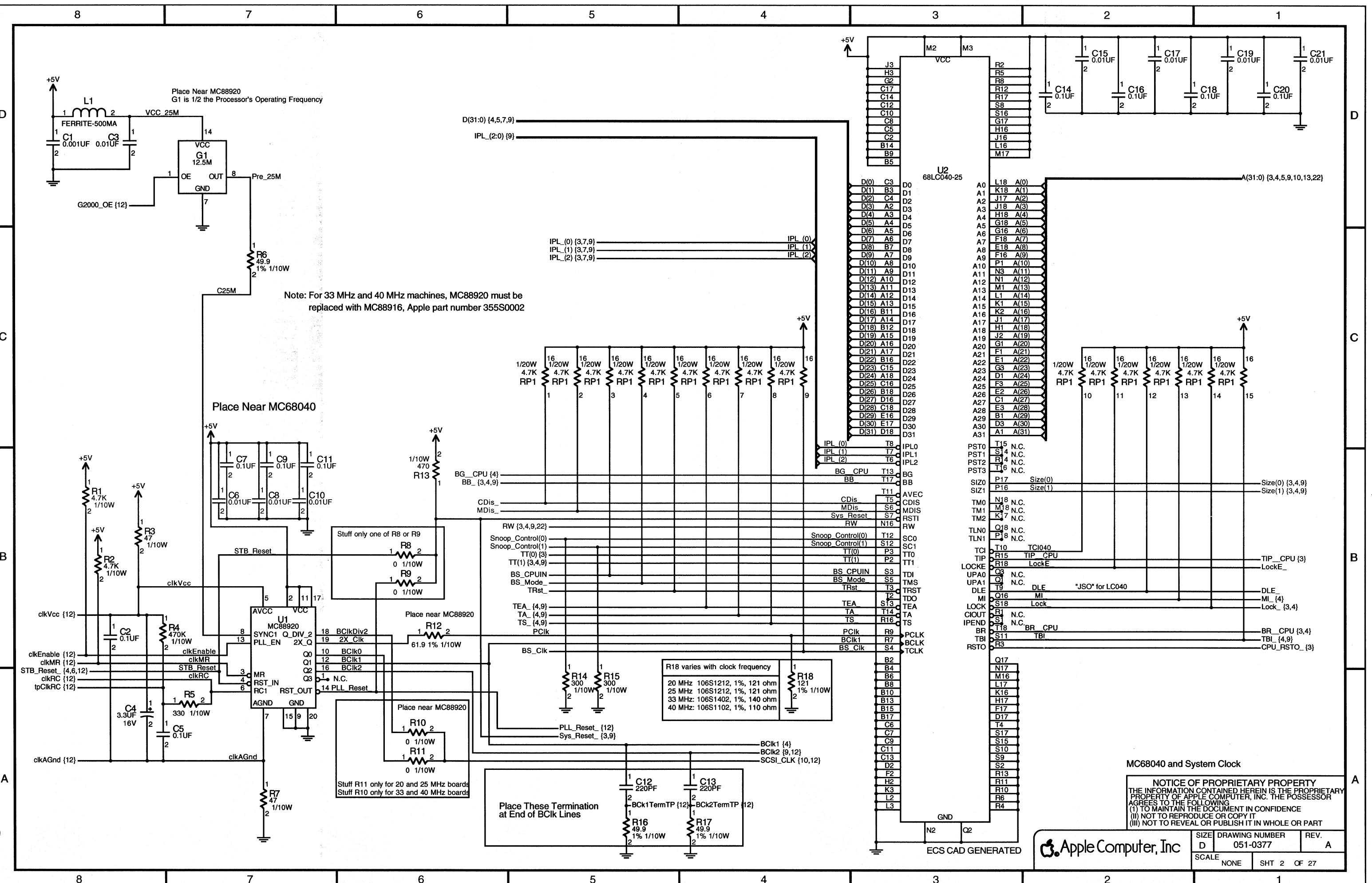
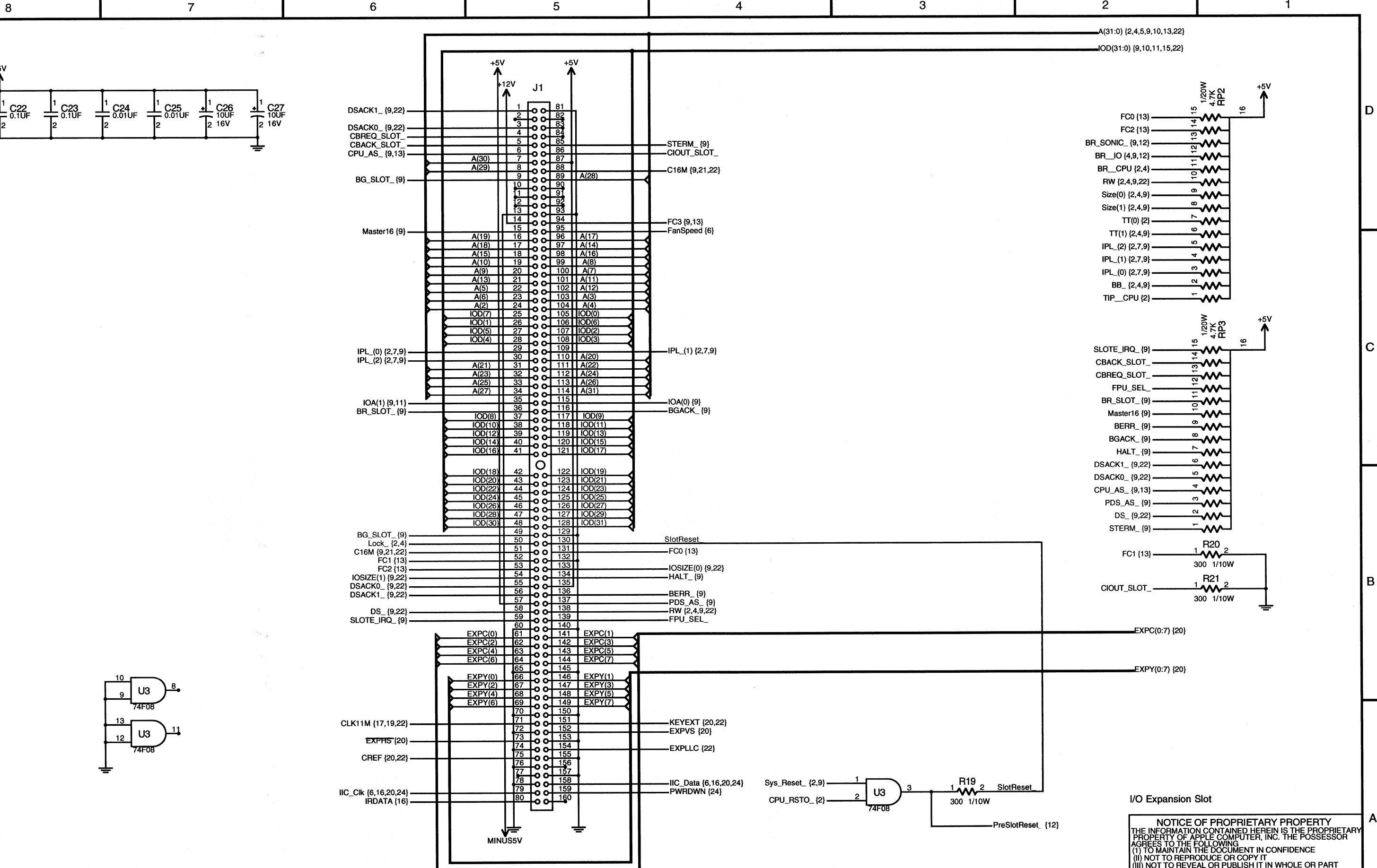


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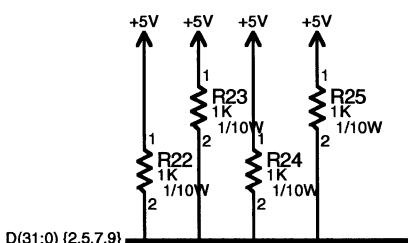
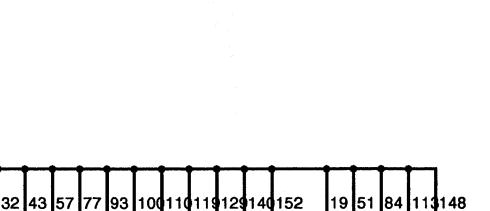
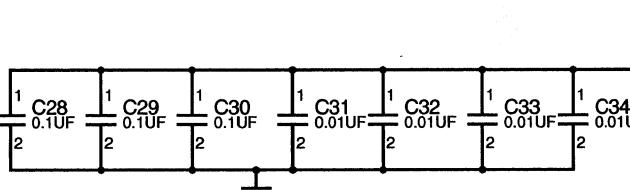
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		—	—	NONE	SCHEMATIC, MLB, SET TOP BOX
		THIRD ANGLE PROJECTION		MATERIAL/FINISH NOTED AS APPLICABLE	SIZE D
				DRAWING NUMBER	051-0377
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				SHT 1 OF 27	





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D(31:0) {2,5,7,9}

Size(0) {2,3,9} 24
Size(1) {2,3,9} 25
TT(1) {2,3,9} 27
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BG_CPU {2} 42
BG_Spare {12} 41
BG2 42
BG1 41
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BClk1 {2} 58
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Sense1 12
Sense0 13
TESTDIS 20
RESET 18
RESET_OUT 17
STB_Reset_ {2,6,12}

MEMCJR

U4

Place RPKs
Close to U4

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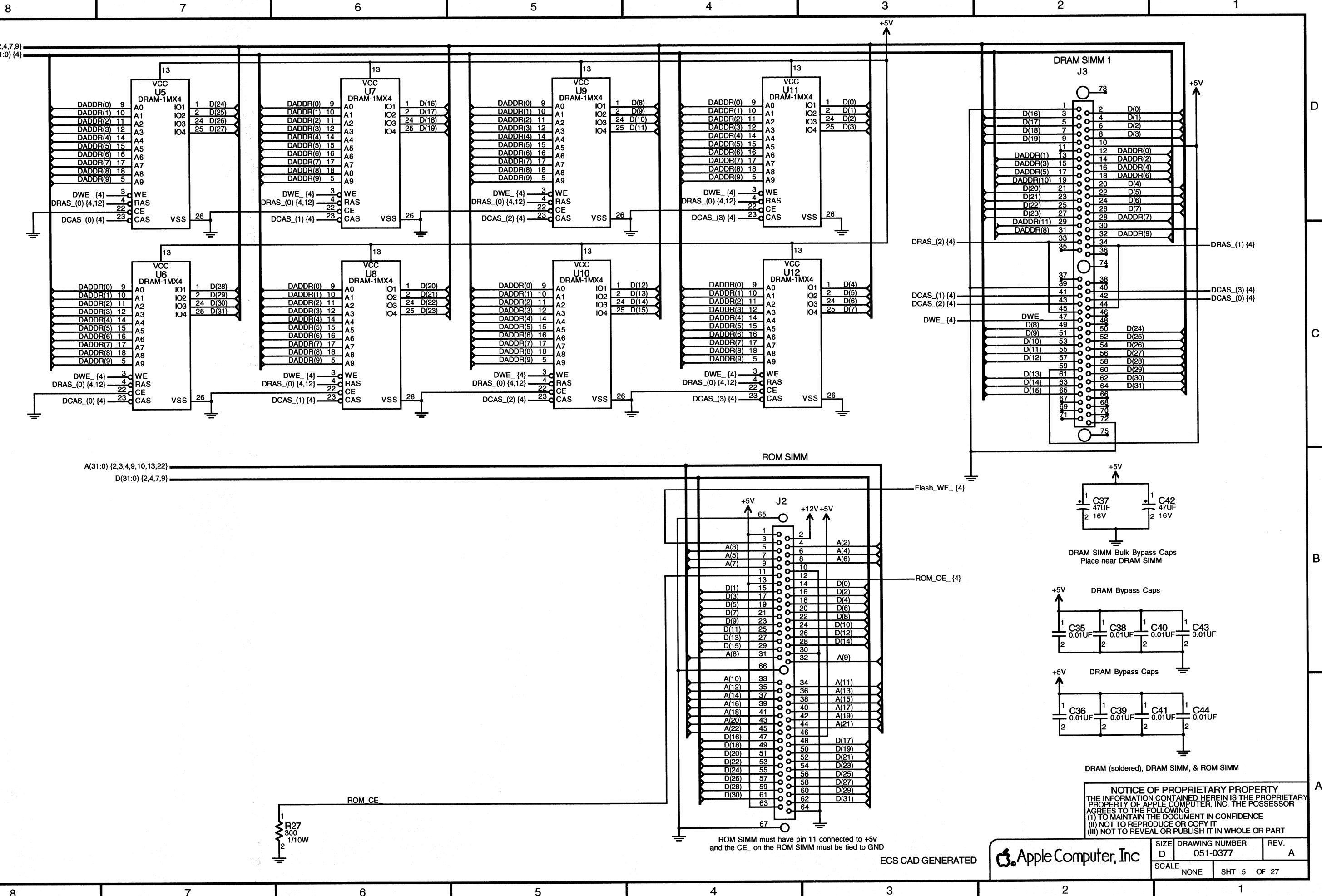
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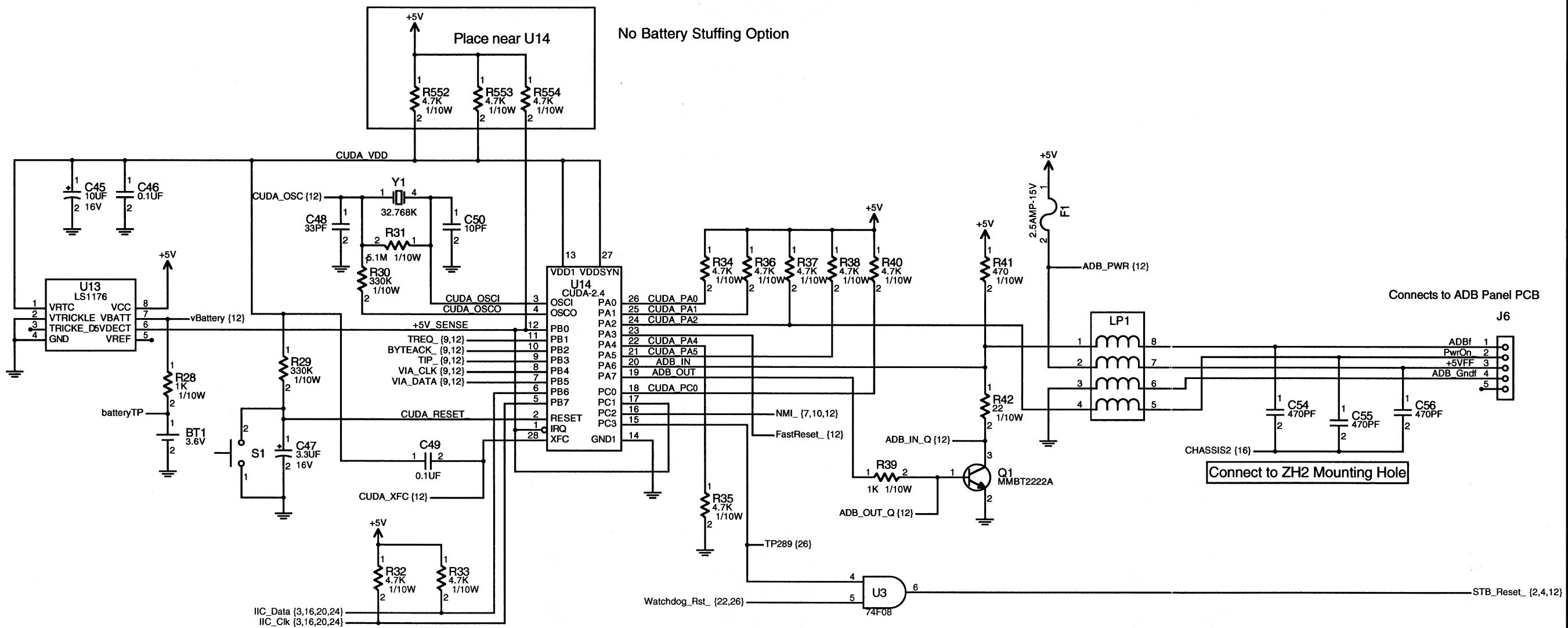
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CUDA, ADB Port, Power

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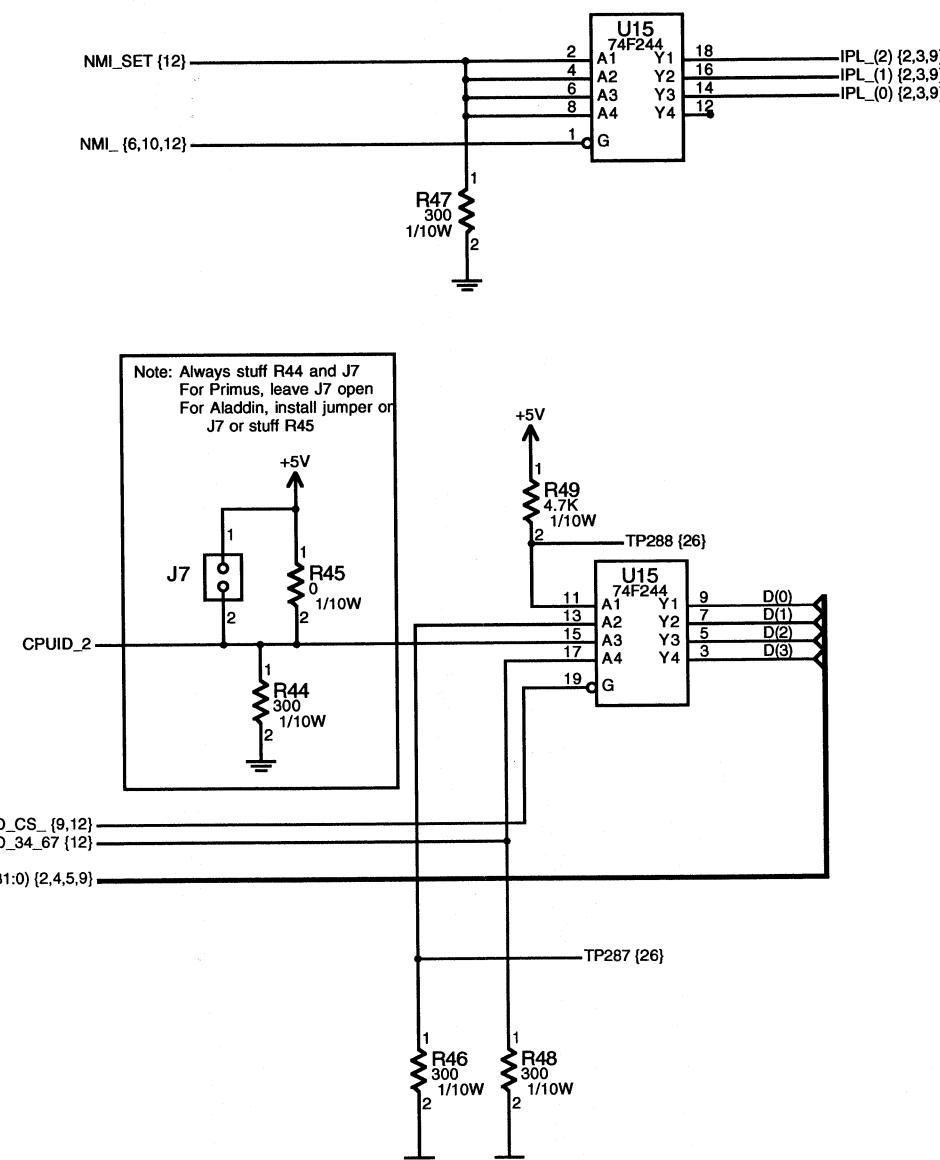
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Machine ID, NMI Request

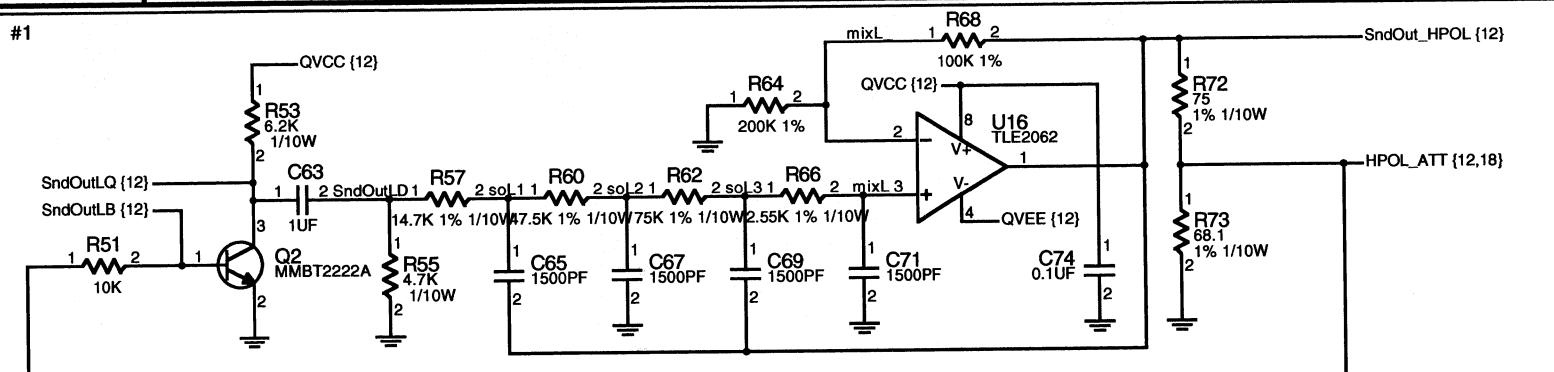
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STB3 uses the Sound Output ONLY block



EMI Filter removed

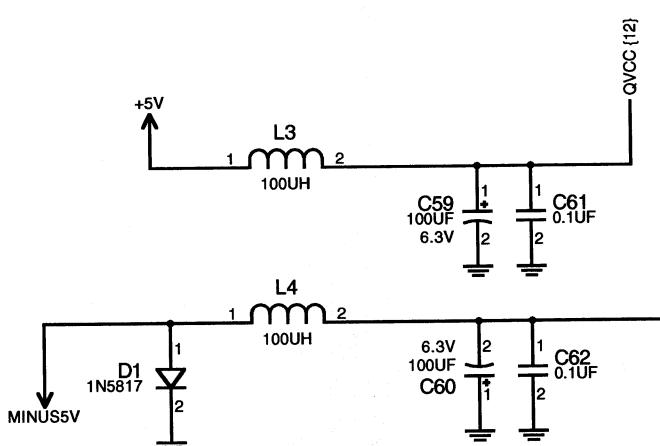
Mac Sound Out to A/V Mixer

HPOR_ATT {12,18}

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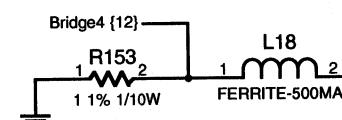
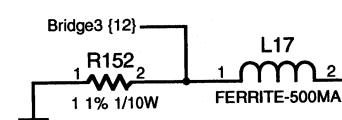
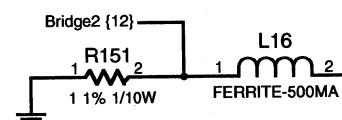
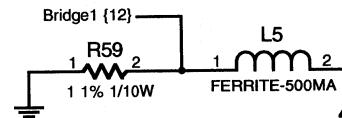
SndOutL {9,12}, SndOutR {9,12}



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EMI Ground Bridges



Macintosh Sound Out

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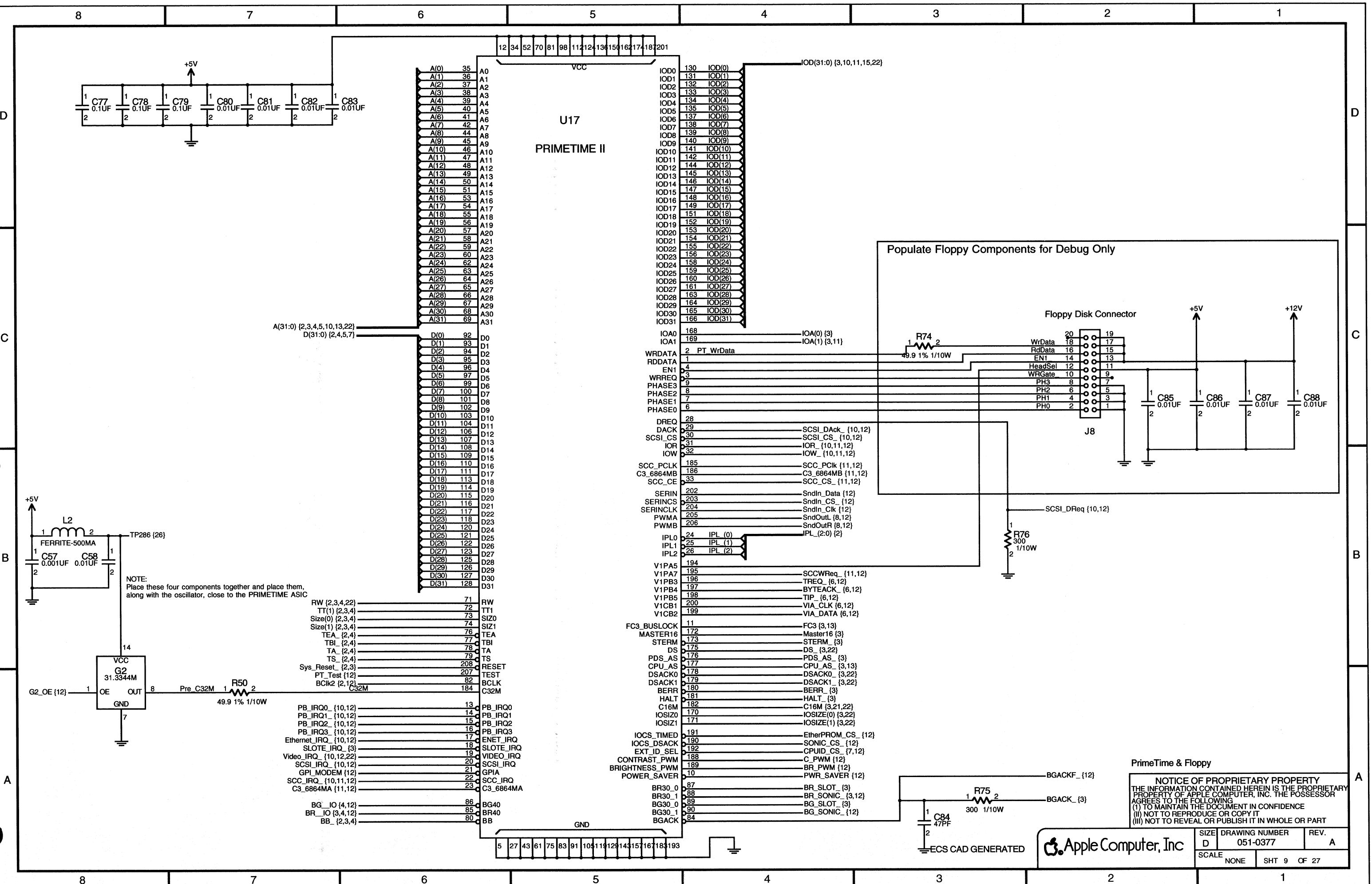
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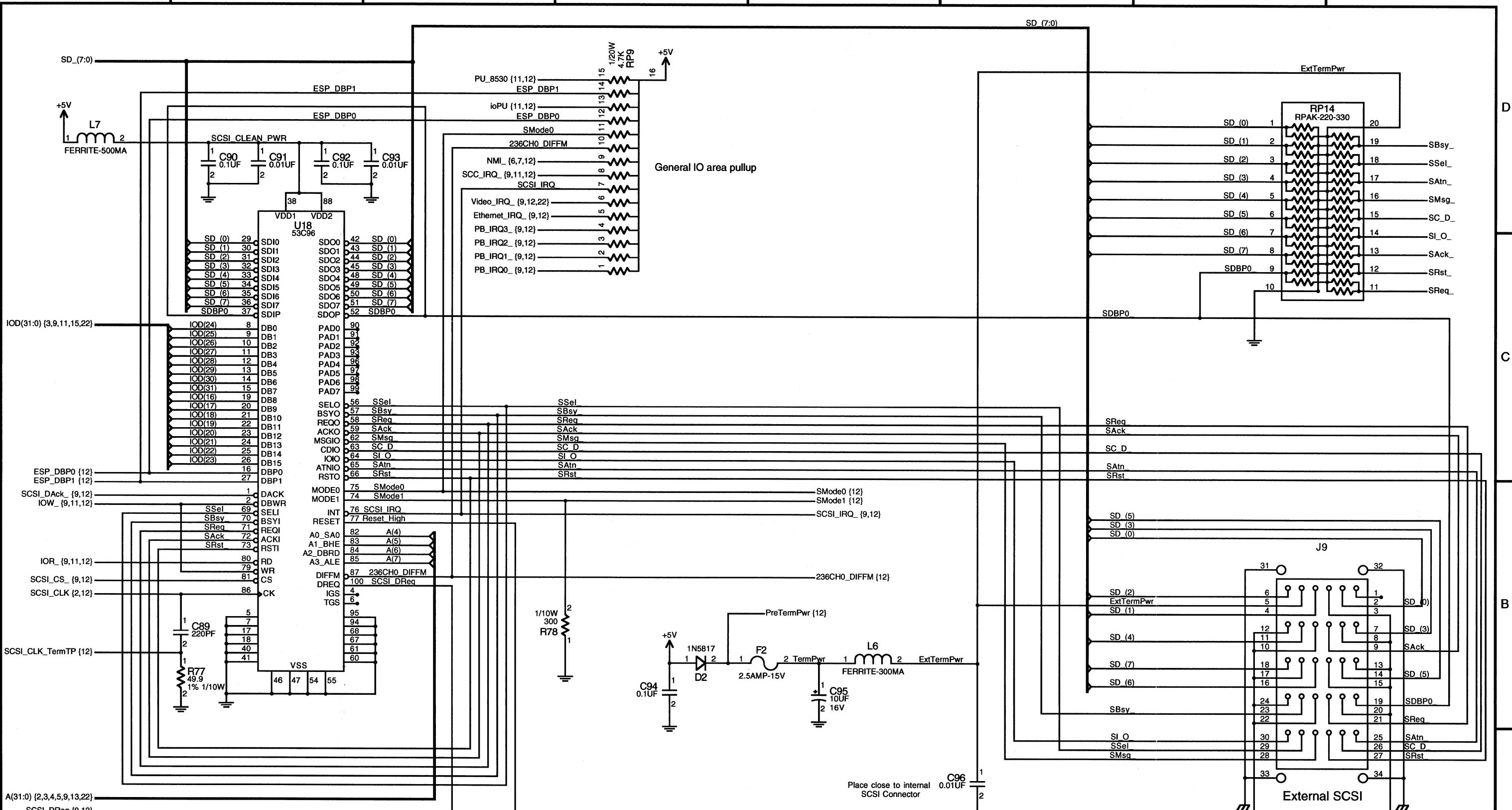
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Place close to internal
SCSI ConnectorC96 0.01UF
1 2

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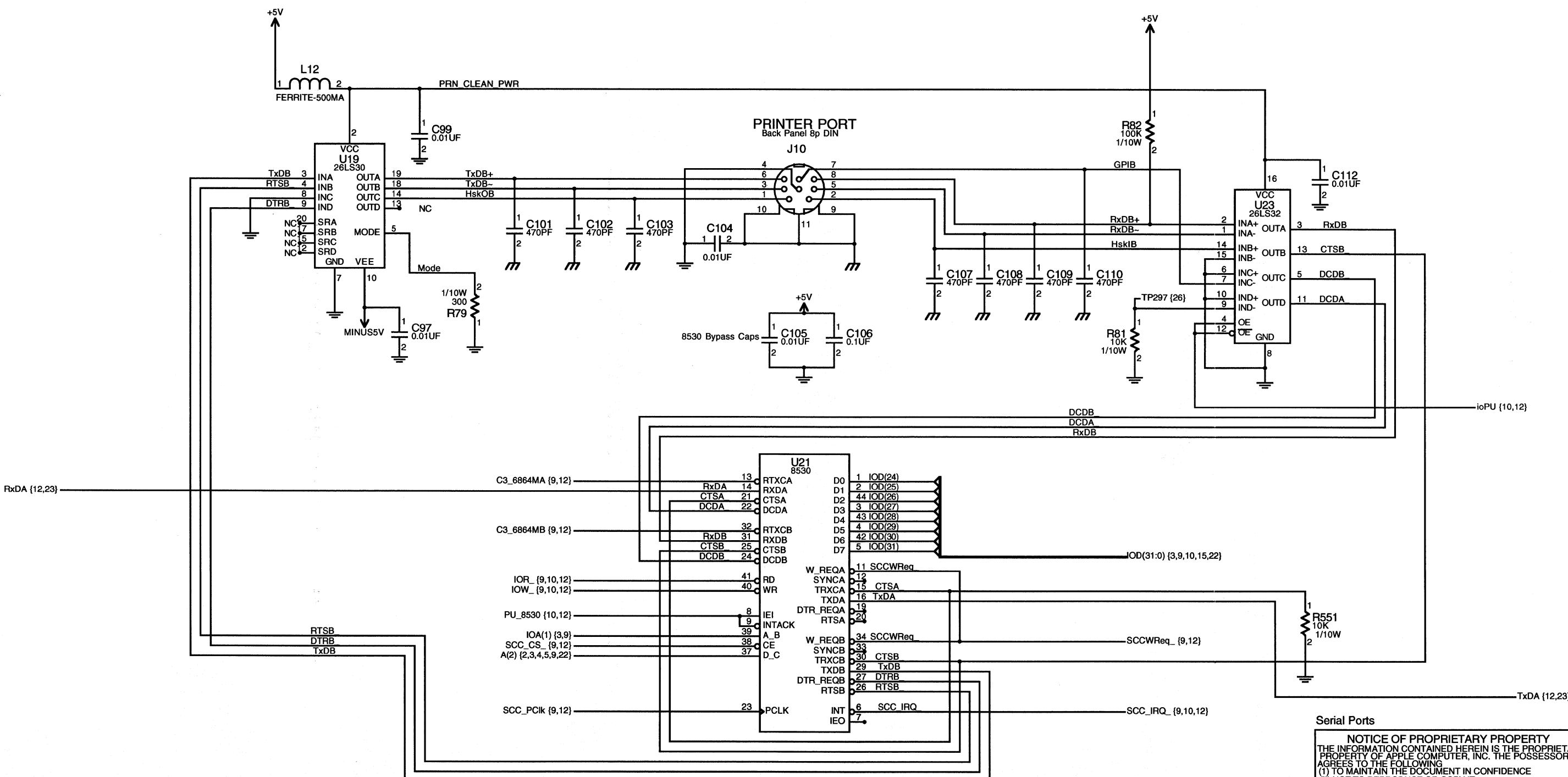
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D		051-0377	A
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8 7 6 5 4 3 2 1

D

G2000_OE {2} — 1 TP1
 G2_OE {9} — 1 TP2
 +5V_SENSE {6} — 1 TP3
 236CHO_DIFFM {10} — 1 TP4
 2X_Clk {2} — 1 TP5

CUDA_OSCI {6} — 1 TP29
 CUDA_OSCO {6} — 1 TP30
 CUDA_PA0 {6} — 1 TP31
 CUDA_PA1 {6} — 1 TP32
 CUDA_PA2 {6} — 1 TP33
 CUDA_PA4 {6} — 1 TP34
 CUDA_PA5 {6} — 1 TP35
 CUDA_PC0 {6} — 1 TP36
 CUDA_VDD {6} — 1 TP37
 CUDA_XFC {6} — 1 TP38

MEMCjr_DRAS_(0) {4} — 1 TP59
 MEMCjr_ROM_OE_ {4} — 1 TP60

Mode {11} — 1 TP61

ADB_IN {6} — 1 TP6
 ADB_IN_Q {6} — 1 TP7
 ADB_OUT {6} — 1 TP8
 ADB_OUT_Q {6} — 1 TP9
 ADB_PWR {6} — 1 TP10

DCDA_{11} — 1 TP39
 DCDB_{11} — 1 TP40
 DRAS_(0) {4,5} — 1 TP41
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 PB_IRQ1_{9,10} — 1 TP65
 PB_IRQ2_{9,10} — 1 TP66
 PB_IRQ3_{9,10} — 1 TP67

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 QVEE {8} — 1 TP73

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 RxDB {11} — 1 TP79

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 Bridge2 {8} — 1 TP445
 Bridge3 {8} — 1 TP446
 Bridge4 {8} — 1 TP447
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 C3_6864MB {9,11} — 1 TP23

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 MEMCjr_DA(8) {4} — 1 TP57
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 SCC_PClk {9,11} — 1 TP83

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 SCSI_CS_{9,10} — 1 TP86
 SCSI_DAck_{9,10} — 1 TP87
 SCSI_DReq {9,10} — 1 TP88
 SCSI_IRQ_{9,10} — 1 TP89
 SMode0 {10} — 1 TP90
 SMode1 {10} — 1 TP91

Sndln_CS_{9} — 1 TP92
 Sndln_Clk {9} — 1 TP93
 Sndln_Data {9} — 1 TP94
 SndOutL {8,9} — 1 TP95
 SndOutR {8,9} — 1 TP96

TIP_{6,9} — 1 TP97
 TREQ_{6,9} — 1 TP98

TxDA {11,23} — 1 TP99
 TxDB {11} — 1 TP100

VCC_25M {2} — 1 TP101
 VIA_CLK {6,9} — 1 TP102
 VIA_DATA {6,9} — 1 TP103

Video_IRQ_{9,10,22} — 1 TP104
 clkAGnd {2} — 1 TP105
 clkEnable {2} — 1 TP106

clkMR {2} — 1 TP107
 clkRC {2} — 1 TP108

clkVcc {2} — 1 TP109

PLL_Reset_{2} — 1 TP144

iOPU {10,11} — 1 TP110
 mixL {8} — 1 TP111
 mixR {8} — 1 TP112

tpClkRC {2} — 1 TP113
 vBattery {6} — 1 TP114

MEMCjr_DRAS_{3} {4} — 1 TP115

MEMCjr_DRAS_{4} {4} — 1 TP116

MEMCjr_Test {4} — 1 TP117

C_PWM {9} — 1 TP118

BR_PWM {9} — 1 TP119

PWR_SAVER {9} — 1 TP120

PT_Test {9} — 1 TP121

BG SONIC_{9} — 1 TP122

SONIC_CS_{9} — 1 TP123

EtherPROM_CS_{9} — 1 TP124

FastReset_{6} — 1 TP125

BR_Spare {4} — 1 TP126

BG_Spare {4} — 1 TP127

MEMCjr_EN245_{4} — 1 TP128

MEMCjr_DIR245 {4} — 1 TP129

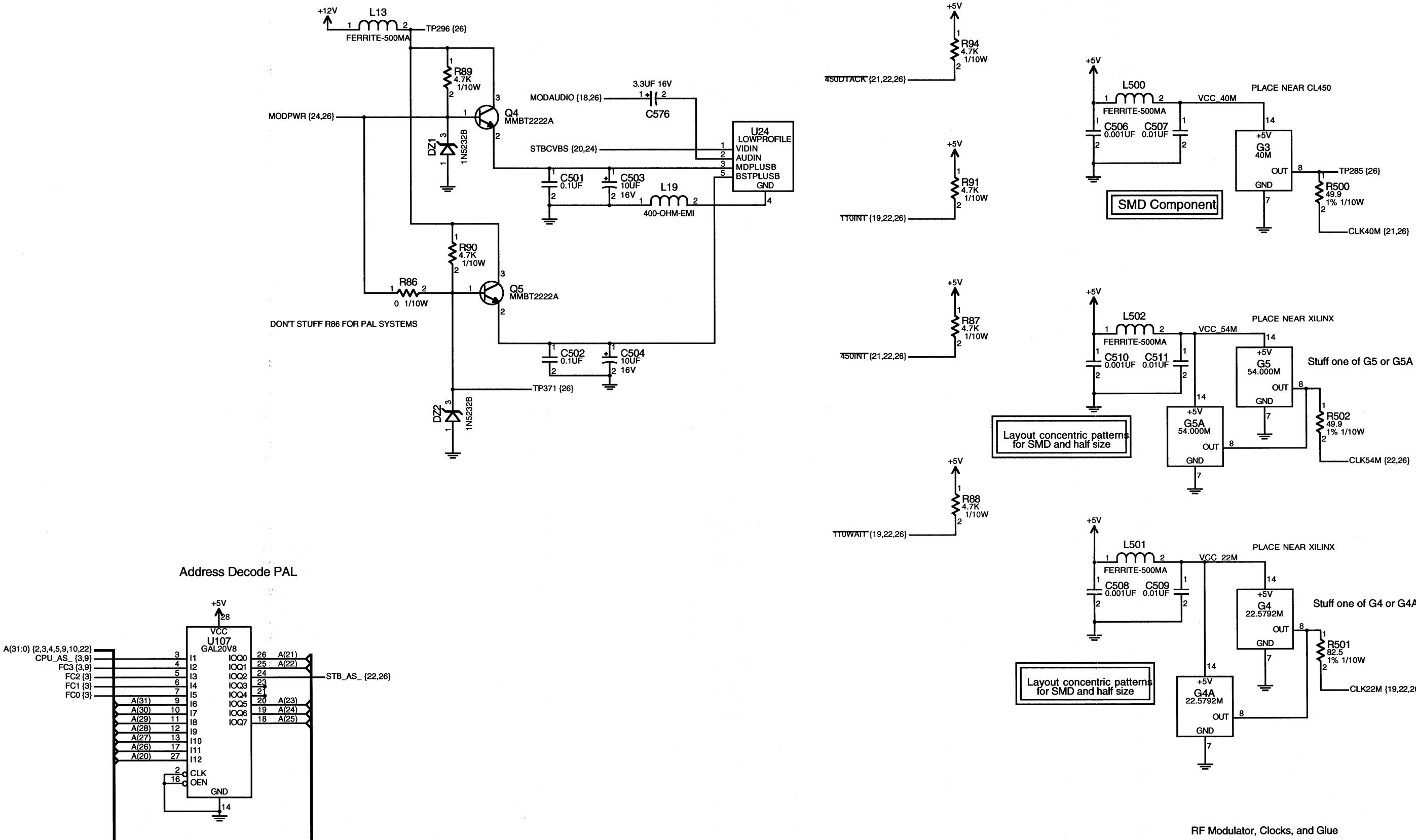
SndOutLD {8} — 1 TP153

SndOutRD {8} — 1 TP154

PreSlotReset_{3} — 1 TP155

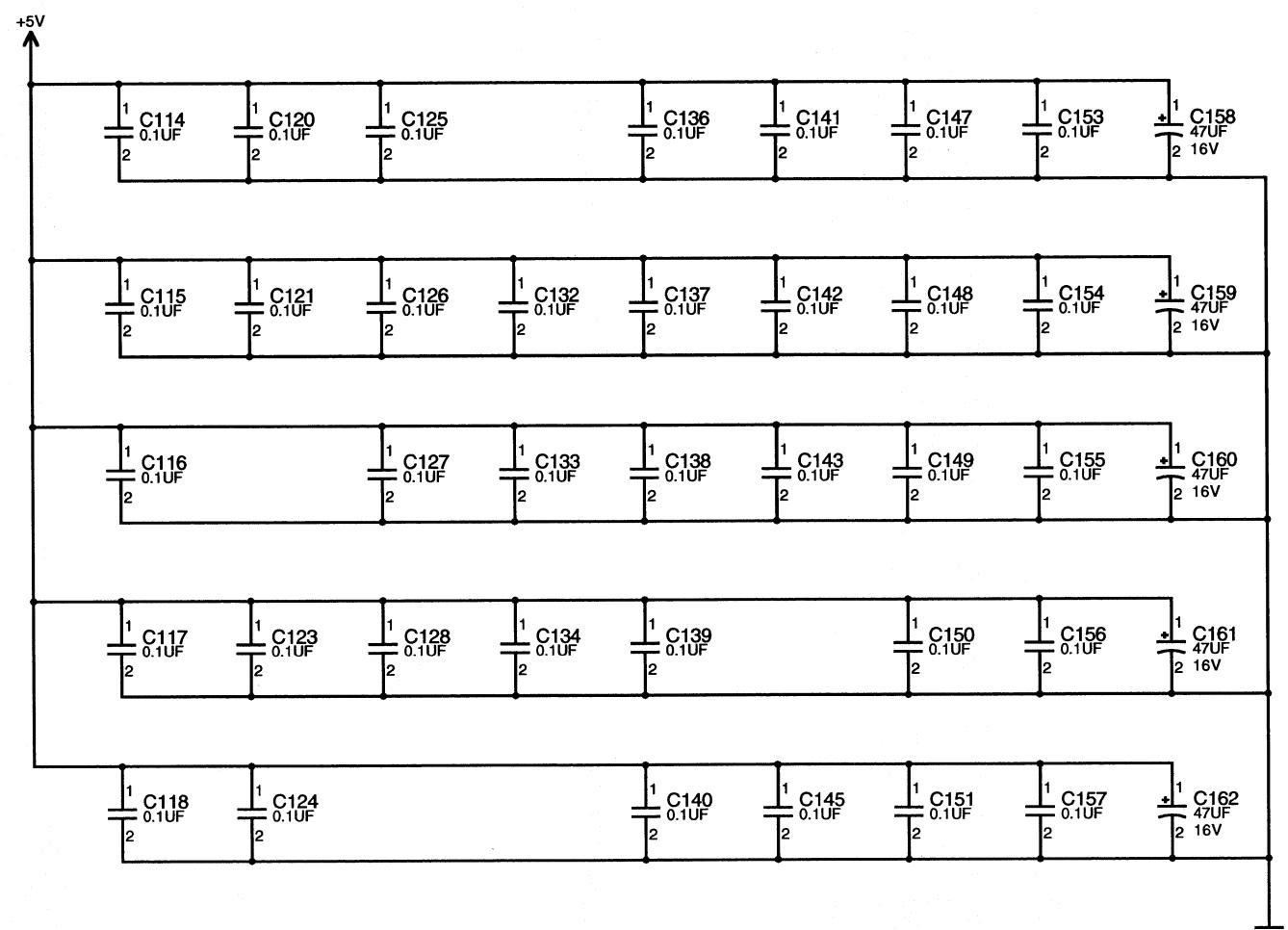
Test Points for Mac Portion of Board

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Voltage Regs, Bypass Caps

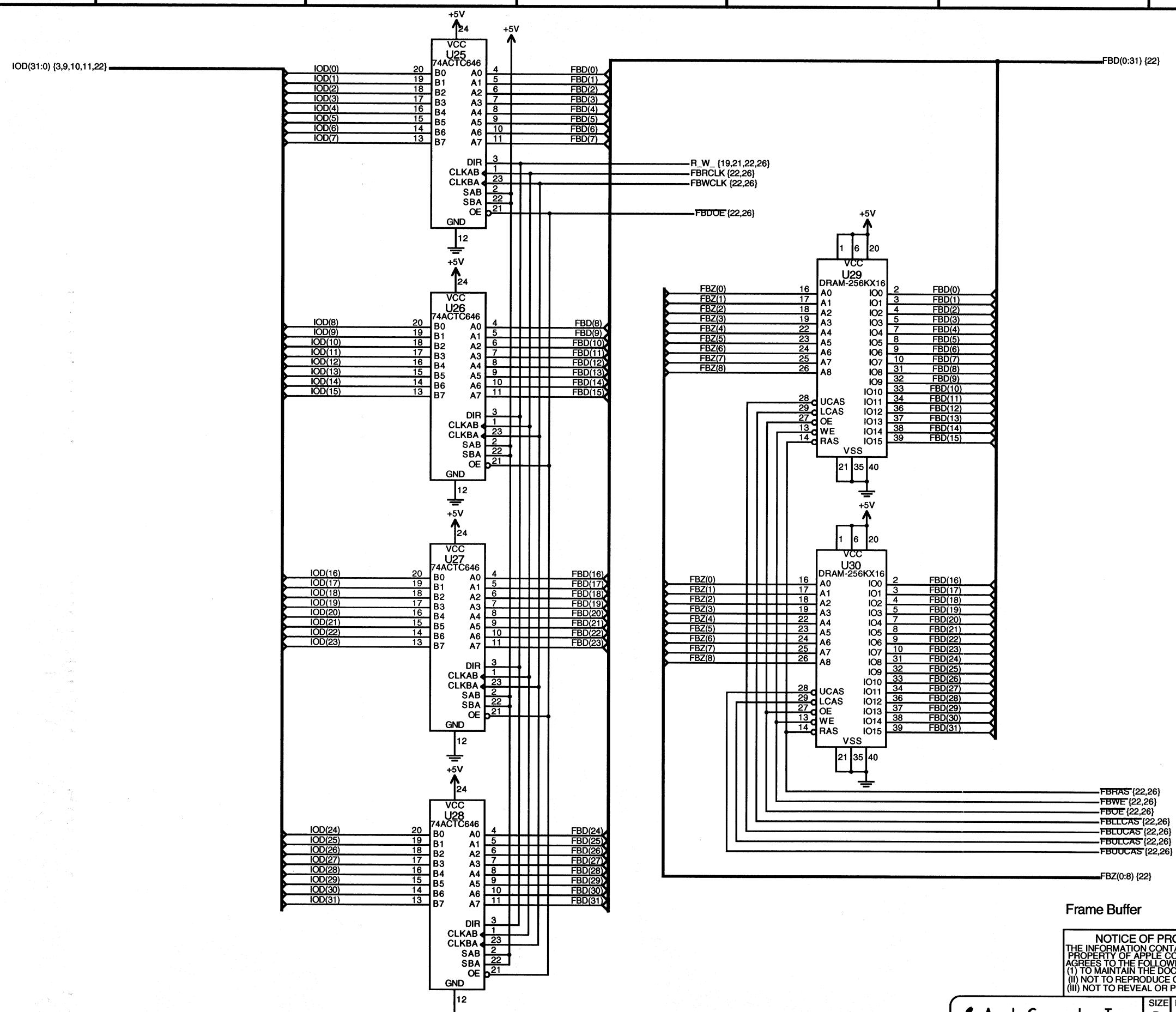
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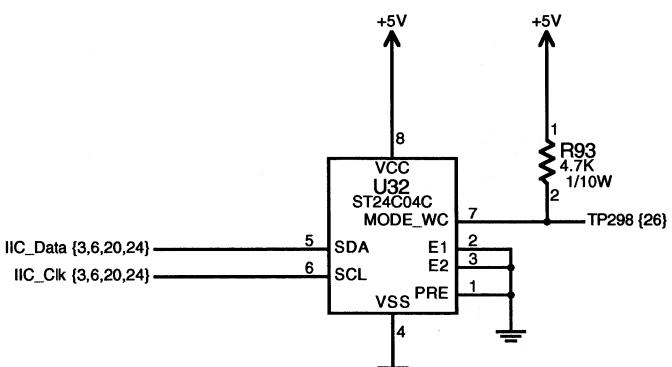
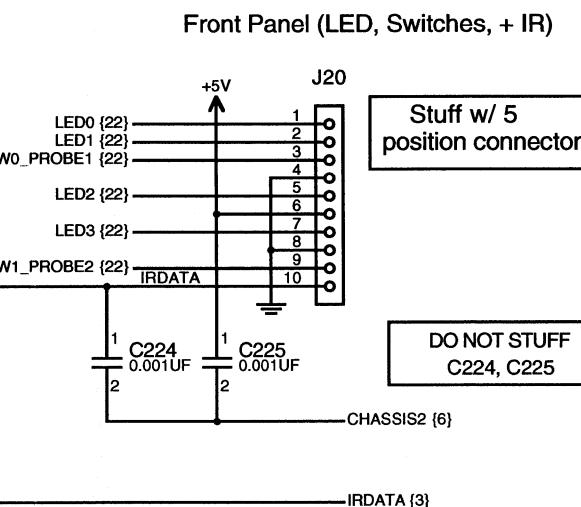
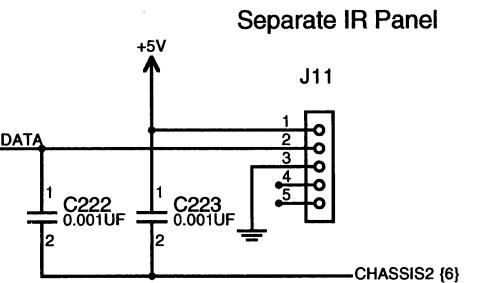
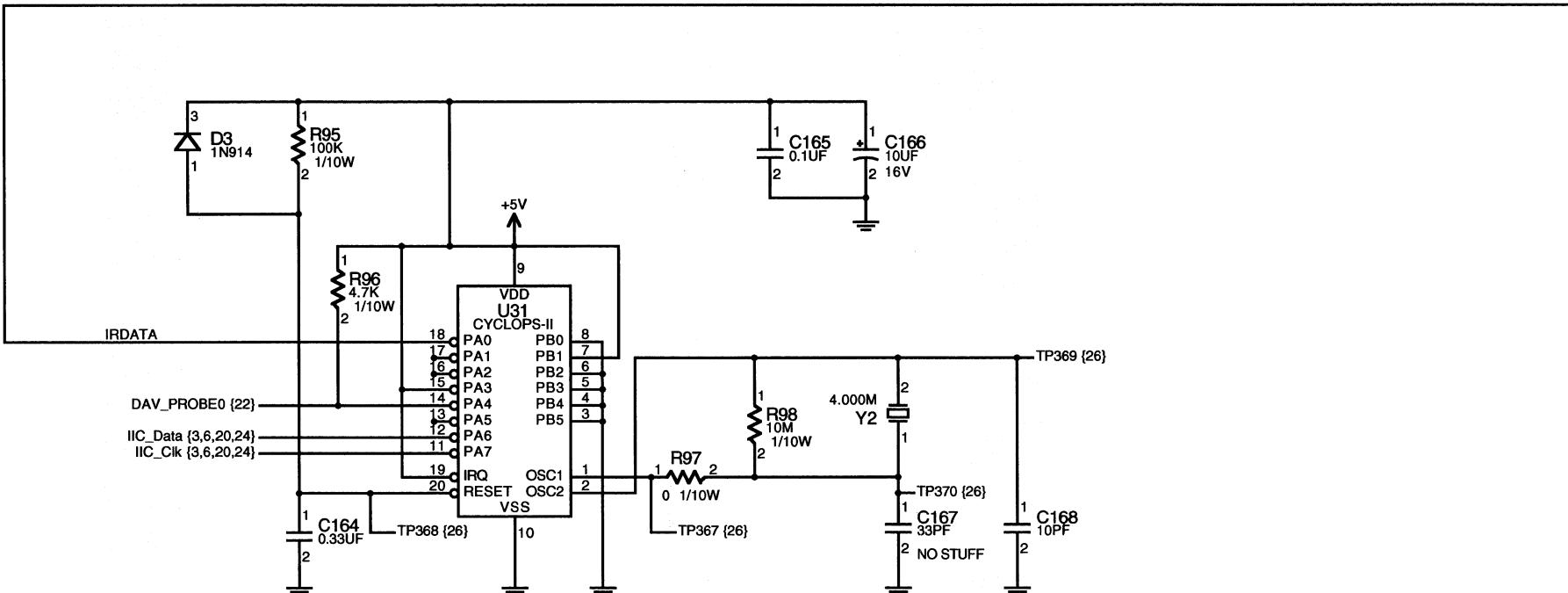
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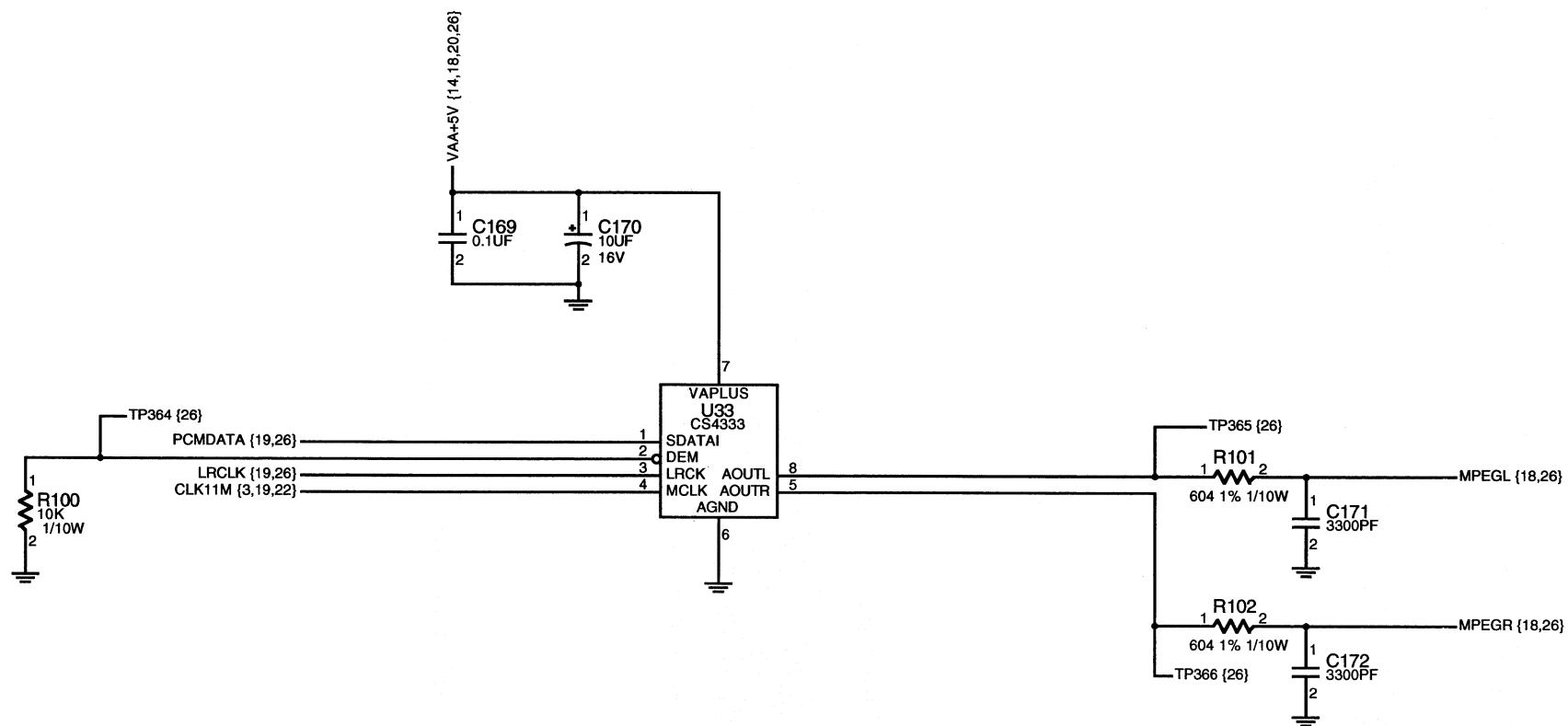
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IR, NVRAM, Front Panel

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MPEG Audio DAC

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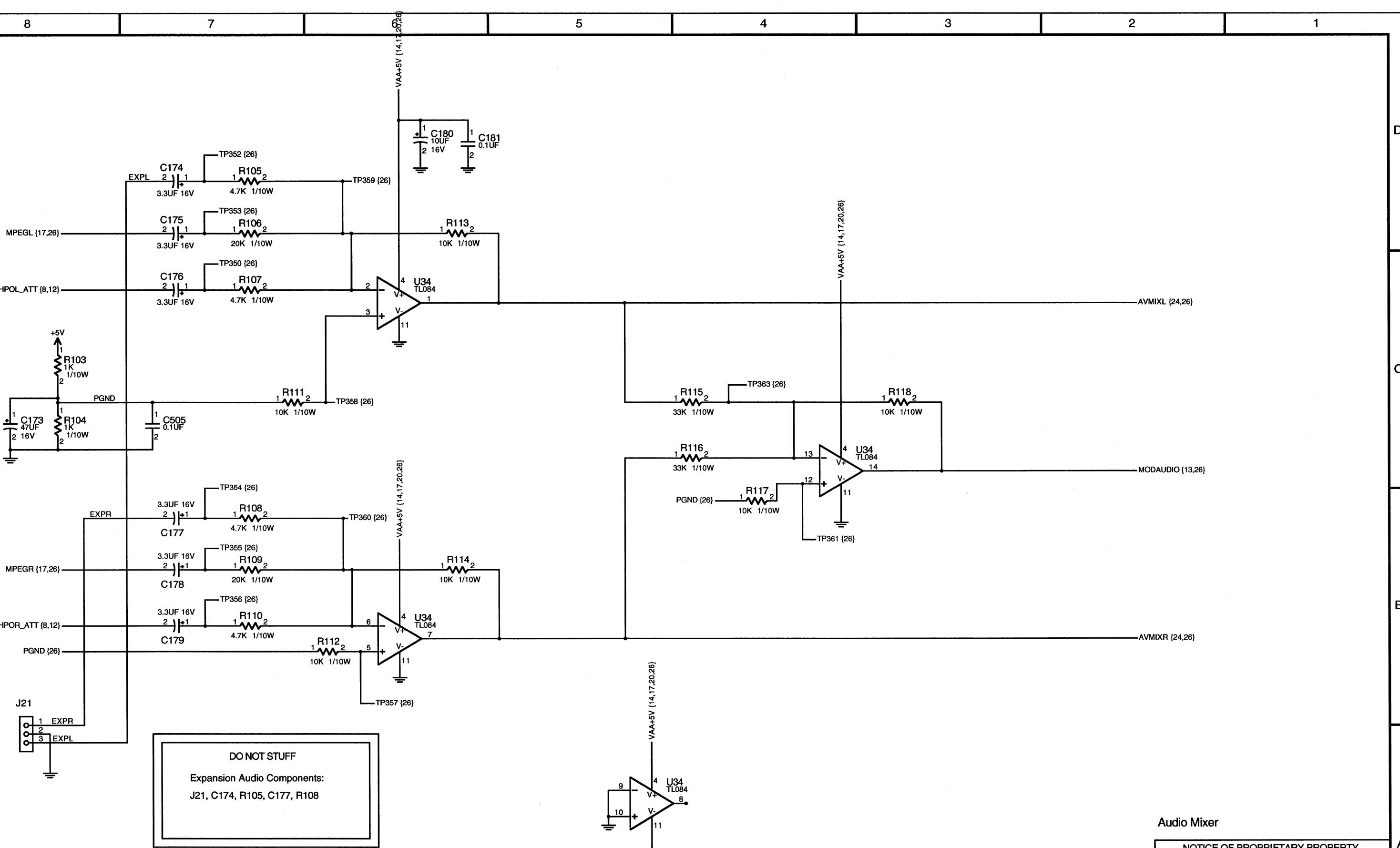
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Audio Mixer

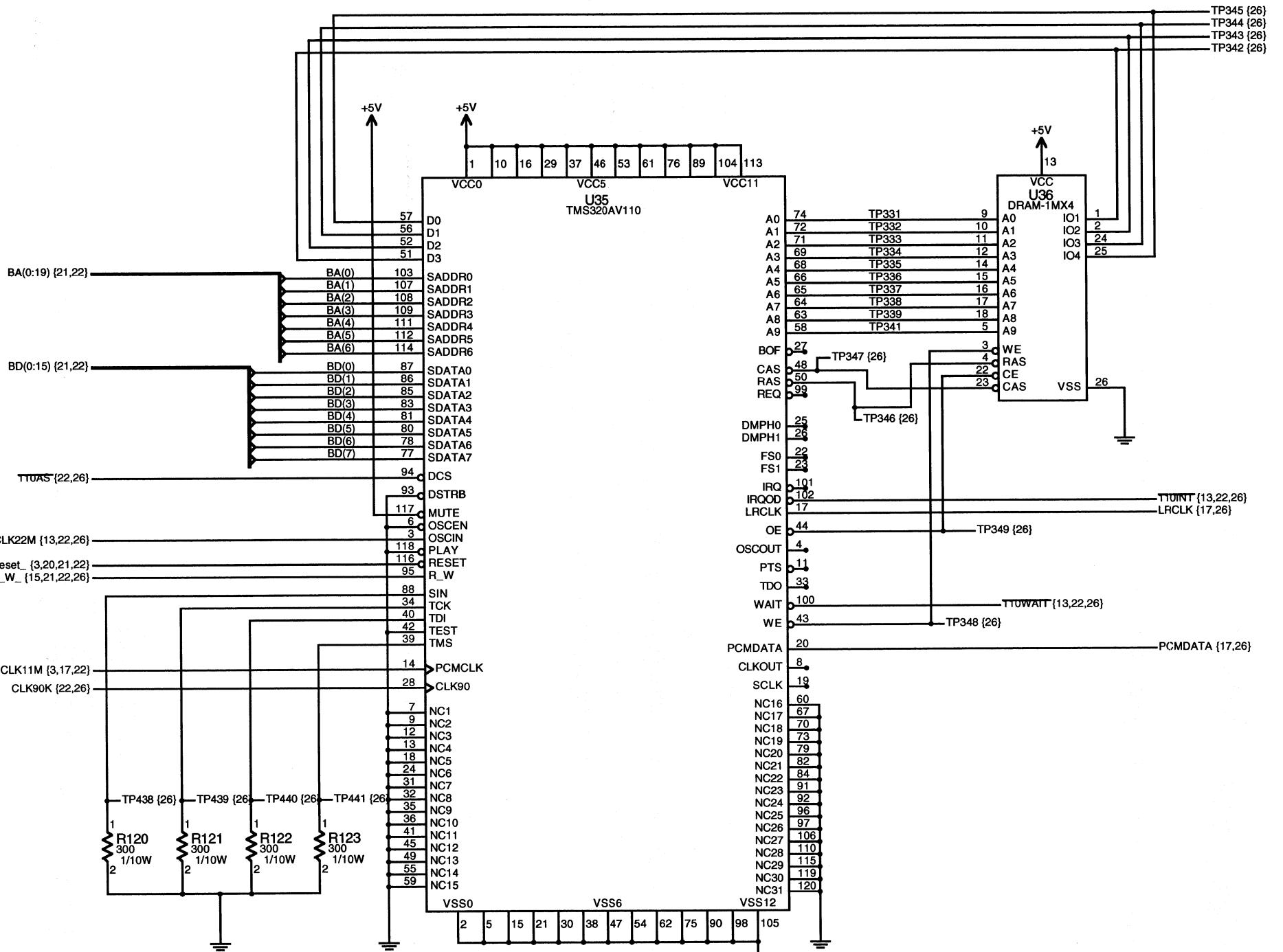
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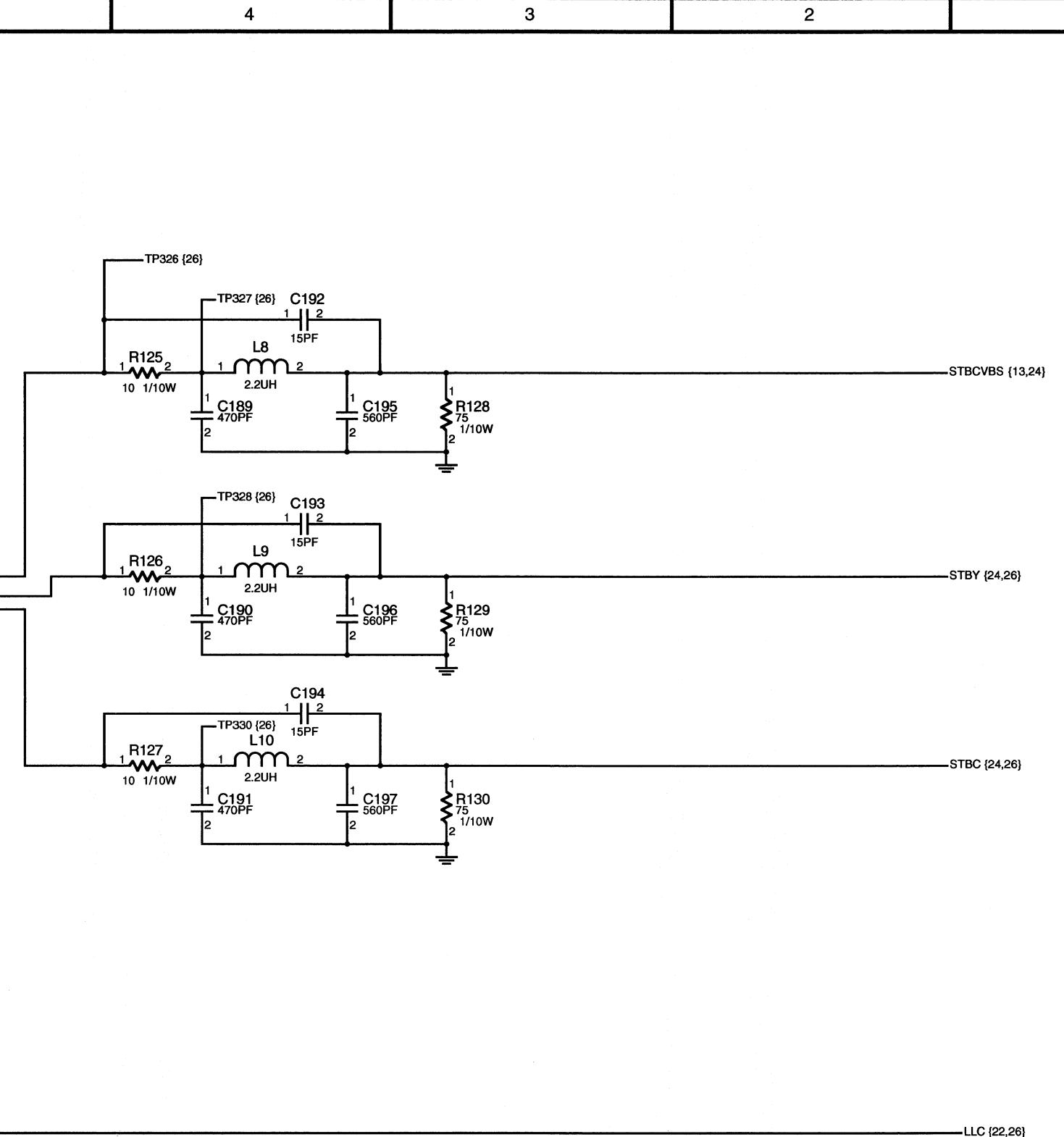
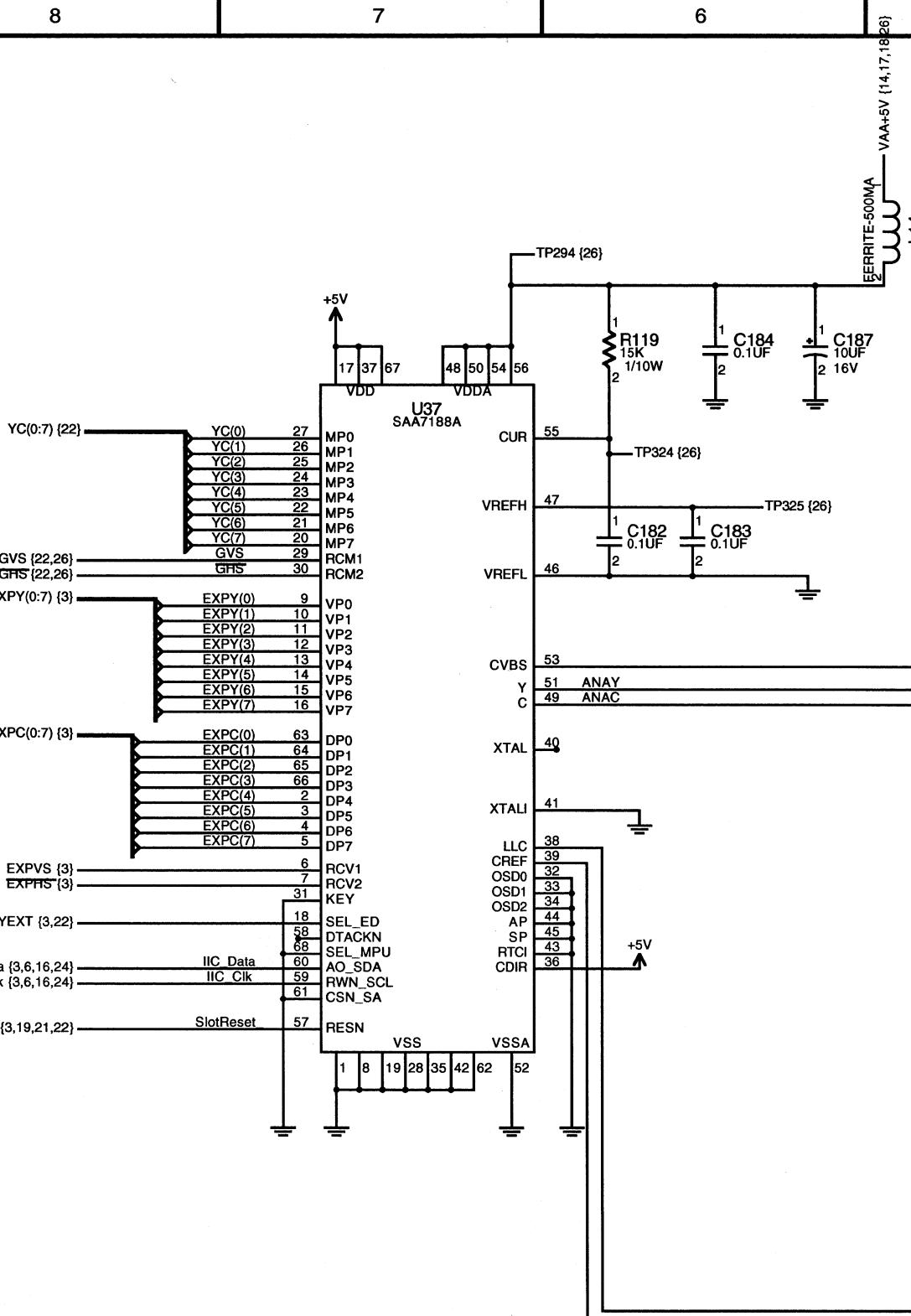
MPEG Audio Decoder

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Digital Video Encoder

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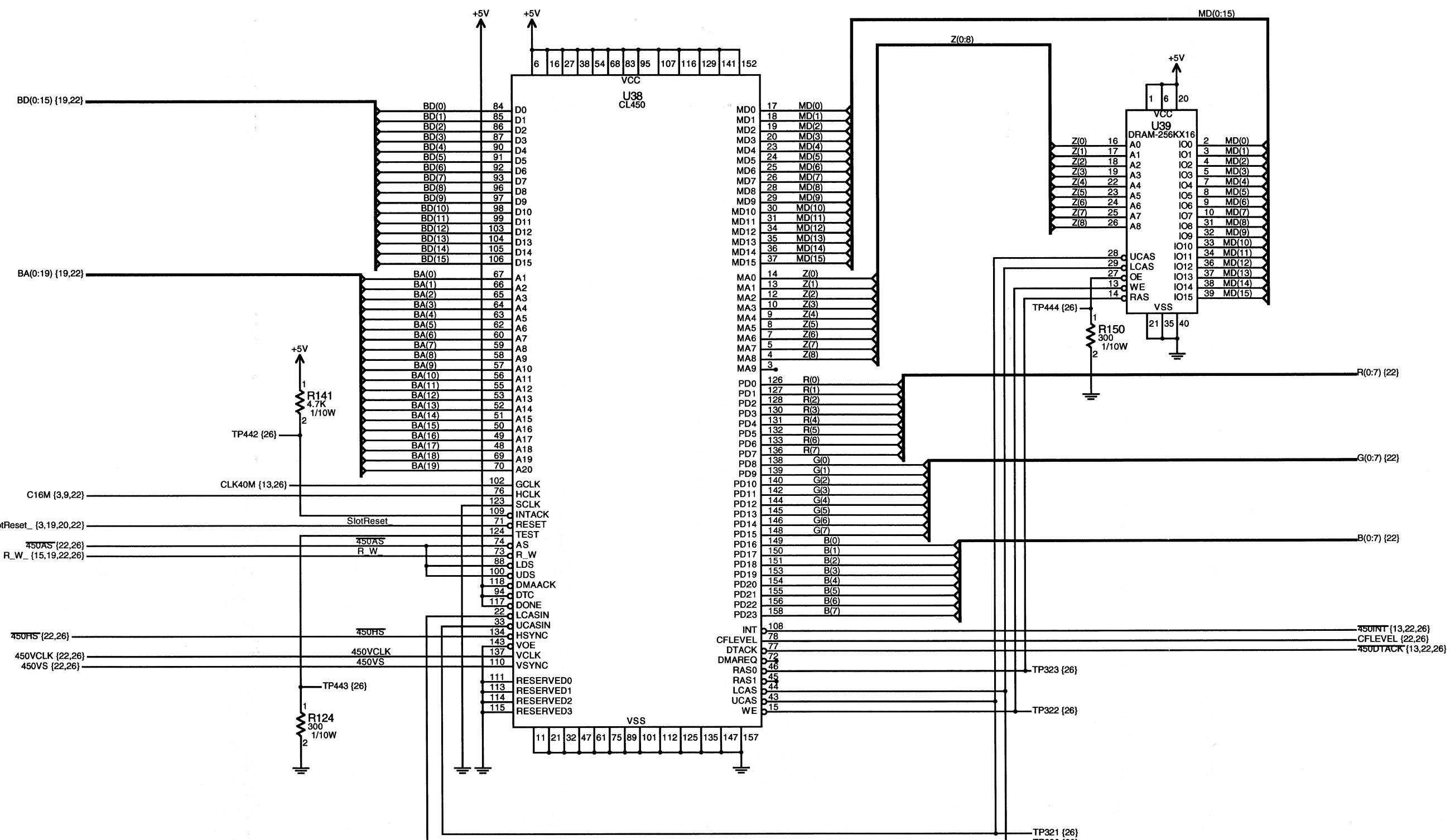
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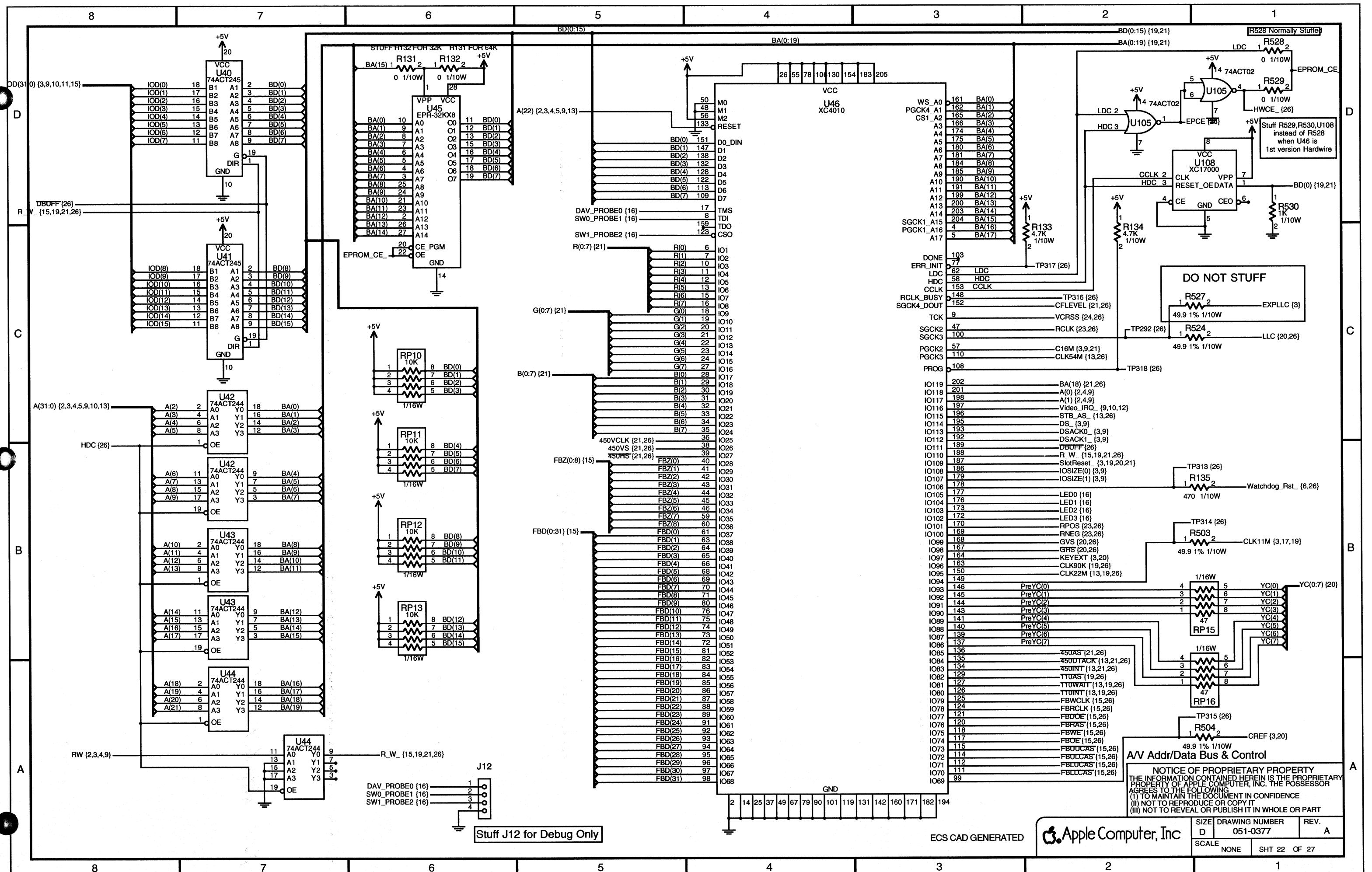
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**MPEG Video Decoder**

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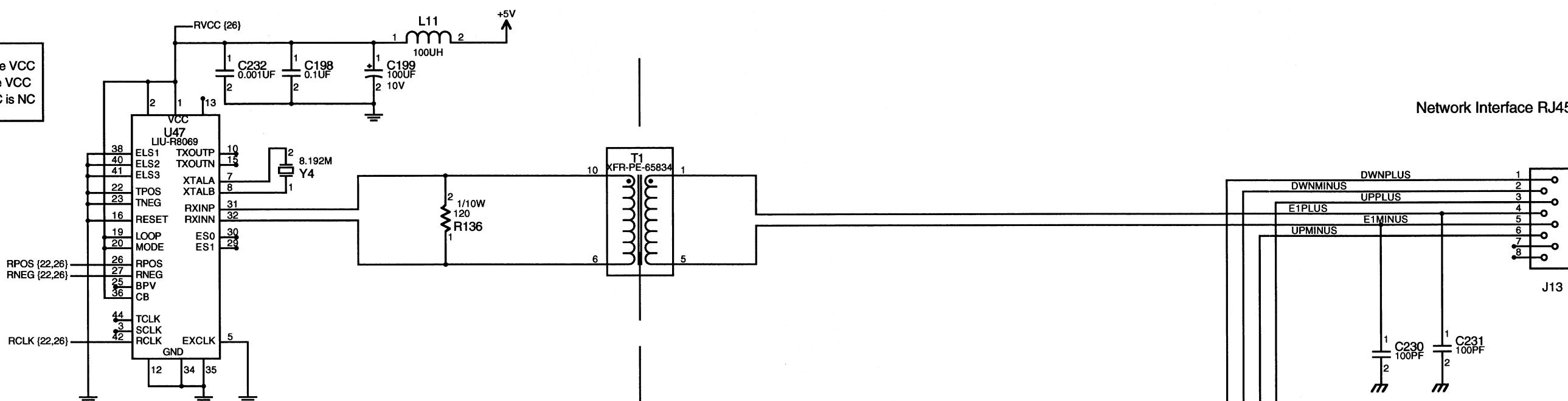
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pin 1 - Analog Receive VCC
pin 2 - Digital Receive VCC
pin 13 - Transmit VCC is NC

Network Interface RJ45 Connection



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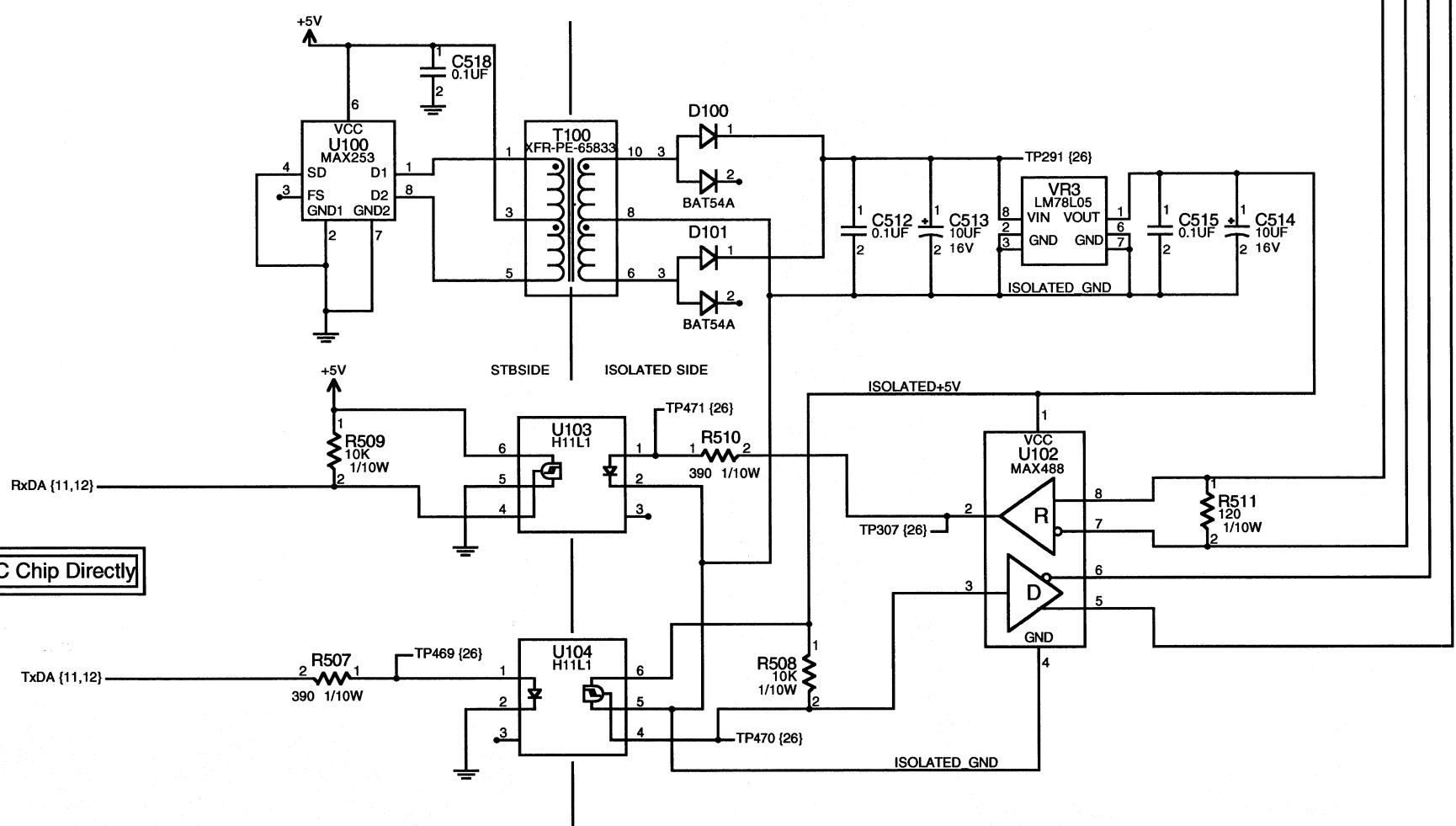
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To/From SCC Chip Directly



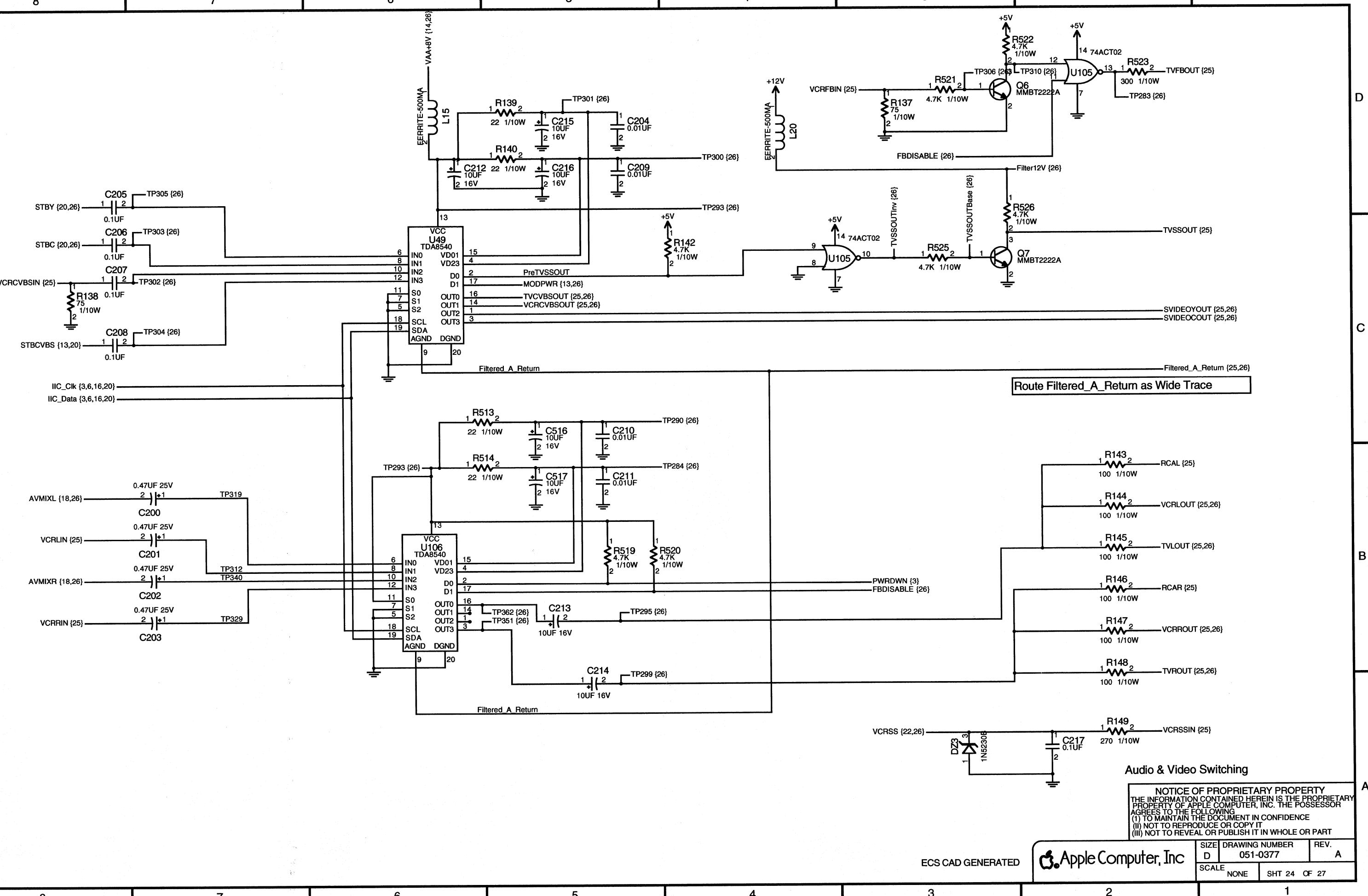
Telco Network Interface

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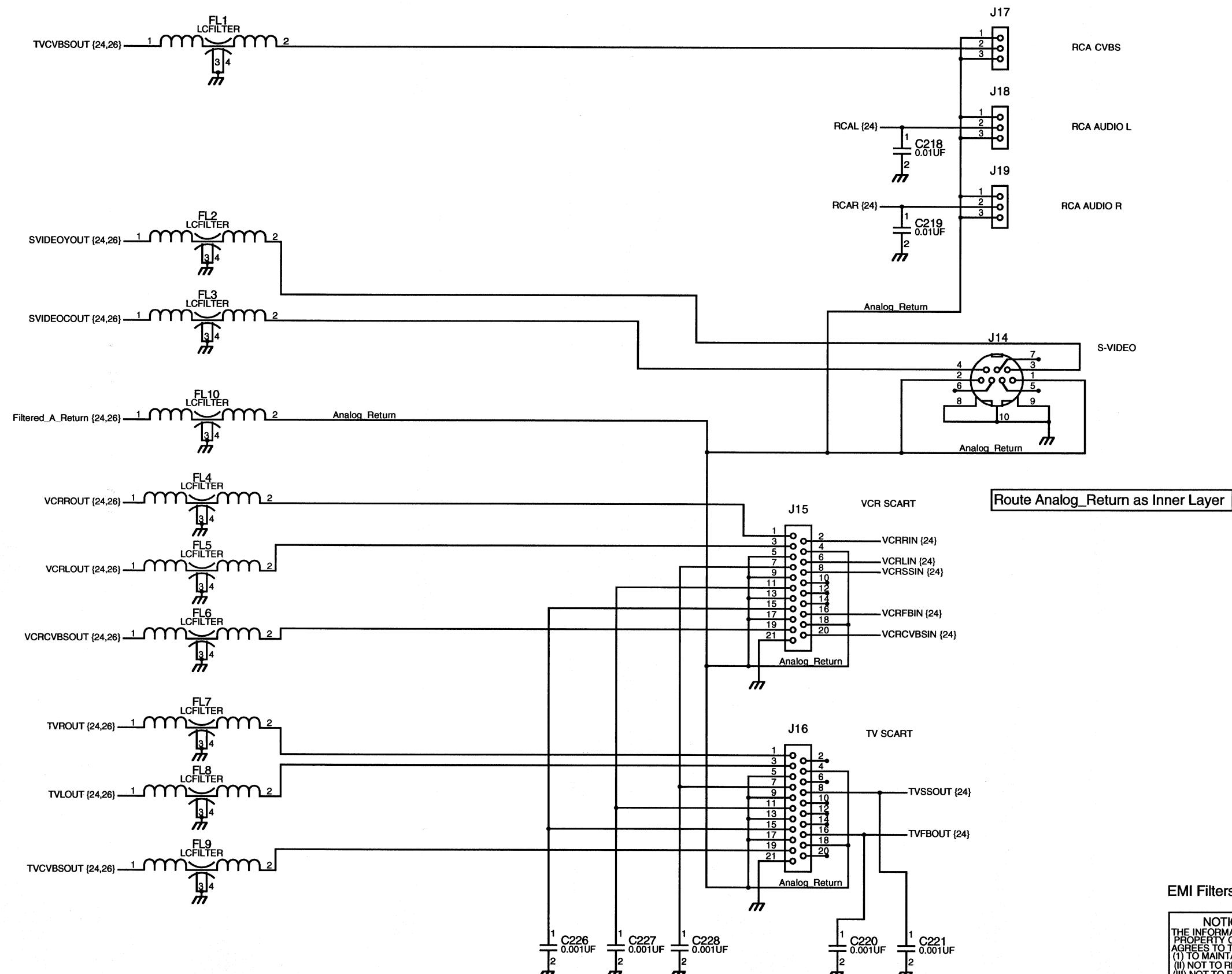
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	D	051-0377	A
SCALE	NONE	SHT 23	OF 27



LEAVE ROOM ON PCB FOR EMI FILTERS ETC



D

D

C

C

B

B

A

A

450VCLK {21,22} 1 TP156
 450VS {21,22} 1 TP157
 ANAC {20} 1 TP158
 ANAY {20} 1 TP159
 AVMIXL {18,24} 1 TP160
 AVMIXR {18,24} 1 TP161
 B(0) {21,22} 1 TP162
 B(1) {21,22} 1 TP163
 B(2) {21,22} 1 TP164
 B(3) {21,22} 1 TP165
 B(4) {21,22} 1 TP166
 B(5) {21,22} 1 TP167
 B(6) {21,22} 1 TP168
 B(7) {21,22} 1 TP169
 BA(15) {21,22} 1 TP170
 BA(16) {21,22} 1 TP171
 BA(17) {21,22} 1 TP172
 BA(18) {21,22} 1 TP173
 BA(19) {21,22} 1 TP174
 BD(10) {21,22} 1 TP175
 BD(11) {21,22} 1 TP176
 BD(12) {21,22} 1 TP177
 BD(13) {21,22} 1 TP178
 BD(14) {21,22} 1 TP179
 BD(15) {21,22} 1 TP180
 BD(8) {21,22} 1 TP181
 BD(9) {21,22} 1 TP182
 C25M {2} 1 TP183
 CFLEVEL {21,22} 1 TP184
 CLK22M {13,19,22} 1 TP185
 CLK40M {13,21} 1 TP186
 CLK54M {13,22} 1 TP187
 CLK90K {19,22} 1 TP188
 FBD(0) {15,22} 1 TP189
 FBD(1) {15,22} 1 TP190
 FBD(10) {15,22} 1 TP191
 FBD(11) {15,22} 1 TP192
 FBD(12) {15,22} 1 TP193
 FBD(13) {15,22} 1 TP194
 FBD(14) {15,22} 1 TP195
 FBD(15) {15,22} 1 TP196
 FBD(16) {15,22} 1 TP197
 FBD(17) {15,22} 1 TP198
 FBD(18) {15,22} 1 TP199
 FBD(19) {15,22} 1 TP200
 FBD(2) {15,22} 1 TP201
 FBD(20) {15,22} 1 TP202
 FBD(21) {15,22} 1 TP203
 FBD(22) {15,22} 1 TP204
 FBD(23) {15,22} 1 TP205
 FBD(24) {15,22} 1 TP206
 FBD(25) {15,22} 1 TP207
 FBD(26) {15,22} 1 TP208
 FBD(27) {15,22} 1 TP209
 FBD(28) {15,22} 1 TP210
 FBD(29) {15,22} 1 TP211
 FBD(3) {15,22} 1 TP212
 FBD(30) {15,22} 1 TP213
 FBD(31) {15,22} 1 TP214
 FBD(4) {15,22} 1 TP215
 FBD(5) {15,22} 1 TP216
 FBD(6) {15,22} 1 TP217
 FBD(7) {15,22} 1 TP218
 FBD(8) {15,22} 1 TP219
 FBD(9) {15,22} 1 TP220
 FBDDISABLE {24} 1 TP221
 FBRCLOCK {15,22} 1 TP222
 FBWCLK {15,22} 1 TP223
 FBZ(0) {15,22} 1 TP224
 FBZ(1) {15,22} 1 TP225
 FBZ(2) {15,22} 1 TP226
 FBZ(3) {15,22} 1 TP227
 FBZ(4) {15,22} 1 TP228
 FBZ(5) {15,22} 1 TP229
 FBZ(6) {15,22} 1 TP230
 FBZ(7) {15,22} 1 TP231
 FBZ(8) {15,22} 1 TP232
 G(0) {21,22} 1 TP233
 G(1) {21,22} 1 TP234
 G(2) {21,22} 1 TP235
 G(3) {21,22} 1 TP236
 G(4) {21,22} 1 TP237
 G(5) {21,22} 1 TP238
 G(6) {21,22} 1 TP239
 G(7) {21,22} 1 TP240
 GPIB {11} 1 TP241
 GVS {20,22} 1 TP242
 HDC {22} 1 TP243
 HskIB {11} 1 TP244
 HskOB {11} 1 TP245
 ISOLATED+5V {23} 1 TP246
 LRCLK {17,19} 1 TP247
 MD(0) {21} 1 TP248
 MD(1) {21} 1 TP249
 MD(10) {21} 1 TP250
 MD(11) {21} 1 TP251
 MD(12) {21} 1 TP252
 MD(13) {21} 1 TP253
 MD(14) {21} 1 TP254
 MD(15) {21} 1 TP255
 MD(2) {21} 1 TP256
 MD(3) {21} 1 TP257
 MD(4) {21} 1 TP258
 MD(5) {21} 1 TP259
 MD(6) {21} 1 TP260
 MD(7) {21} 1 TP261
 MD(8) {21} 1 TP262
 MD(9) {21} 1 TP263
 MEMCjr_DA{1..4} {1} TP264
 MEMCjr_DA{10..12} {1} TP265
 MEMCjr_DA{11..13} {1} TP266
 MEMCjr_DA{2..4} {1} TP267
 MEMCjr_DA{3..4} {1} TP268
 MEMCjr_DA{5..6} {1} TP269
 MEMCjr_DA{6..7} {1} TP270
 MEMCjr_DA{7..8} {1} TP271
 MEMCjr_DA{9..10} {1} TP272
 MEMCjr_DCAS_{1..4} {1} TP273
 MEMCjr_DCAS_{2..4} {1} TP274
 MEMCjr_DCAS_{3..4} {1} TP275
 MEMCjr_DRAS{1..4} {1} TP276
 MEMCjr_DRAS{2..4} {1} TP277
 MEMCjr_DWE_{4..5} {1} TP278
 MODAUDIO {13,18} 1 TP279

FBD(15..22) {1..4} TP280
 MDPWR {13,24} 1 TP280
 MPEGL {17,18} 1 TP281
 MPEGR {17,18} 1 TP282
 TP283 {24} 1 TP283
 TP284 {24} 1 TP284
 TP285 {13} 1 TP285
 TP286 {9} 1 TP286
 TP287 {7} 1 TP287
 TP288 {7} 1 TP288
 TP289 {6} 1 TP289
 TP290 {24} 1 TP290
 TP291 {23} 1 TP291
 TP292 {22} 1 TP292
 TP293 {24} 1 TP293
 TP294 {20} 1 TP294
 TP295 {24} 1 TP295
 TP296 {13} 1 TP296
 TP297 {11} 1 TP297
 TP298 {16} 1 TP298
 TP299 {24} 1 TP299
 TP300 {24} 1 TP300
 TP301 {24} 1 TP301
 TP302 {24} 1 TP302
 TP303 {24} 1 TP303
 TP304 {24} 1 TP304
 TP305 {24} 1 TP305
 TP306 {24} 1 TP306
 TP307 {23} 1 TP307
 RVCC {23} 1 TP308
 TP310 {24} 1 TP310
 PCMDATA {17,19} 1 TP372
 PGND {18} 1 TP373
 PRN_CLEAN_PWR {11} 1 TP374
 Pre_25M {2} 1 TP375
 R(0) {21,22} 1 TP376
 R(1) {21,22} 1 TP377
 R(2) {21,22} 1 TP378
 R(3) {21,22} 1 TP379
 R(4) {21,22} 1 TP380
 R(5) {21,22} 1 TP381
 R(6) {21,22} 1 TP382
 R(7) {21,22} 1 TP383
 RCLK {22,23} 1 TP384
 RNEG {22,23} 1 TP385
 RPOS {22,23} 1 TP386
 R_W_{15,19,21,22} 1 TP387
 RxDB+ {11} 1 TP388
 RxDB- {11} 1 TP389
 SCSI_CLEAN_PWR {10} 1 TP390
 STBC {20,24} 1 TP391
 STBY {20,24} 1 TP392
 Sense0 {4} 1 TP393
 Sense1 {4} 1 TP394
 Sense2 {4} 1 TP395
 TermPwr {10} 1 TP396
 TxDB+ {11} 1 TP397
 TxDB- {11} 1 TP398
 VAA+5V {14,17,18,20} 1 TP399
 VAA+8V {14,24} 1 TP400
 VCC_40M {13} 1 TP401
 VCRSS {22,24} 1 TP402
 Watchdog_Rst_{6,22} 1 TP403
 TP342 {19} 1 TP342
 TP343 {19} 1 TP343
 TP344 {19} 1 TP344
 TP345 {19} 1 TP345
 TP346 {19} 1 TP346
 TP347 {19} 1 TP347
 TP348 {19} 1 TP348
 TP349 {19} 1 TP349
 TP350 {18} 1 TP350
 TP351 {24} 1 TP351
 TP352 {18} 1 TP352
 TP353 {18} 1 TP353
 TP354 {18} 1 TP354
 TP355 {18} 1 TP355
 TP356 {18} 1 TP356
 TP357 {18} 1 TP357
 TP358 {18} 1 TP358
 TP359 {18} 1 TP359
 TP360 {18} 1 TP360
 TP361 {18} 1 TP361
 TP362 {24} 1 TP362
 TP363 {18} 1 TP363
 TP364 {17} 1 TP364
 TP365 {17} 1 TP365
 TP366 {17} 1 TP366
 TP367 {16} 1 TP367
 TP368 {16} 1 TP368
 TP369 {16} 1 TP369
 TP370 {16} 1 TP370
 TP371 {13} 1 TP371
 TP372 {17,19} 1 TP372
 TP373 {18} 1 TP373
 PRN_CLEAN_PWR {11} 1 TP374
 Pre_25M {2} 1 TP375
 R(0) {21,22} 1 TP376
 R(1) {21,22} 1 TP377
 R(2) {21,22} 1 TP378
 R(3) {21,22} 1 TP379
 R(4) {21,22} 1 TP380
 R(5) {21,22} 1 TP381
 R(6) {21,22} 1 TP382
 R(7) {21,22} 1 TP383
 RCLK {22,23} 1 TP384
 RNEG {22,23} 1 TP385
 RPOS {22,23} 1 TP386
 R_W_{15,19,21,22} 1 TP387
 RxDB+ {11} 1 TP388
 RxDB- {11} 1 TP389
 SCSI_CLEAN_PWR {10} 1 TP390
 STBC {20,24} 1 TP391
 STBY {20,24} 1 TP392
 Sense0 {4} 1 TP393
 Sense1 {4} 1 TP394
 Sense2 {4} 1 TP395
 TermPwr {10} 1 TP396
 TxDB+ {11} 1 TP397
 TxDB- {11} 1 TP398
 VAA+5V {14,17,18,20} 1 TP399
 VAA+8V {14,24} 1 TP400
 VCC_40M {13} 1 TP401
 VCRSS {22,24} 1 TP402
 Watchdog_Rst_{6,22} 1 TP403
 YC(0) {20,22} 1 TP404
 YC(1) {20,22} 1 TP405
 YC(2) {20,22} 1 TP406
 YC(3) {20,22} 1 TP407
 YC(4) {20,22} 1 TP408
 YC(5) {20,22} 1 TP409
 YC(6) {20,22} 1 TP410
 YC(7) {20,22} 1 TP411
 Z(0) {21} 1 TP412
 Z(1) {21} 1 TP413
 Z(2) {21} 1 TP414
 Z(3) {21} 1 TP415
 Z(4) {21} 1 TP416
 Z(5) {21} 1 TP417
 Z(6) {21} 1 TP418
 Z(7) {21} 1 TP419
 Z(8) {21} 1 TP420
 TTOINT {19,22} 1 TP421
 TTOINT {13,19,22} 1 TP422
 TTOWAIT {13,19,22} 1 TP423
 T50AT {21,22} 1 TP424
 T50DTACK {13,21,22} 1 TP425
 T50FTS {21,22} 1 TP426
 T50INT {13,21,22} 1 TP427
 DBUFF {22} 1 TP428
 FBDOE {15,22} 1 TP429
 FBLLCAS {15,22} 1 TP430
 FBLLUCAS {15,22} 1 TP431
 FBOL {15,22} 1 TP432
 FBRAES {15,22} 1 TP433
 FBULUCAS {15,22} 1 TP434
 FBULLCAS {15,22} 1 TP435
 FBWE {15,22} 1 TP436
 GRIS {20,22} 1 TP437
 TP438 {19} 1 TP438
 TP439 {19} 1 TP439
 TP440 {19} 1 TP440
 TP441 {19} 1 TP441
 TP442 {21} 1 TP442
 TP443 {21} 1 TP443
 TP444 {21} 1 TP444
 TVCVBSOUT {24,25} 1 TP448
 VCRCVBSOUT {24,25} 1 TP449
 SVIDEOYOUT {24,25} 1 TP450
 SVIDEOCOUT {24,25} 1 TP451
 VRLOUT {24,25} 1 TP452
 TVLOUT {24,25} 1 TP453
 VCRROUT {24,25} 1 TP454
 TVROUT {24,25} 1 TP455
 PreYC0 {22} 1 TP456
 PreYC1 {22} 1 TP457
 PreYC2 {22} 1 TP458
 PreYC3 {22} 1 TP459
 PreYC4 {22} 1 TP460
 PreYC5 {22} 1 TP461
 PreYC6 {22} 1 TP462
 PreYC7 {22} 1 TP463
 PreTVSSOUT {24} 1 TP464
 TVSSOUTInv {24} 1 TP467
 TVSSOUTBase {24} 1 TP465
 Filterd_A_Return {24,25} 1 TP466

Test Points for A/V Portion of Board

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REFERENCE DESIGNATOR LOCATIONS									
BT1	6-C7	C92 10-D7	C194 20-C4	J1 3-A5	R35 6-C4	R132 22-D6	U19 11-C7		
C1	2-D8	C93 10-D6	C195 20-C4	J2 5-A4	R36 6-C4	R133 22-C2	U21 11-A5		
C2	2-B8	C94 10-B5	C196 20-C4	J3 5-C2	R37 6-C4	R134 22-C2	U23 11-B2		
C3	2-D8	C95 10-B4	C197 20-B4	J4 6-B4	R38 6-C4	R135 22-B2	U24 13-D4		
C4	2-A8	C96 10-A3	C198 23-D7	J5 6-B3	R39 6-C4	R136 23-D6	U25 15-D5		
C5	2-A8	C97 11-B6	C199 23-D6	J6 6-C1	R40 6-C4	R137 24-D3	U26 15-C5		
C6	2-B7	C98 11-C6	C200 24-B7	J7 7-C5	R41 6-C3	R138 24-C8	U27 15-B5		
C7	2-B7	C101 11-C6	C201 24-B7	J8 9-C2	R42 6-C3	R139 24-D5	U28 15-A5		
C8	2-B7	C102 11-C5	C202 24-B7	J9 10-A2	R43 6-B3	R140 24-D5	U29 15-C3		
C9	2-B7	C103 11-C5	C203 24-B7	J10 11-C4	R44 7-C5	R141 21-C6	U30 15-B3		
C10	2-B7	C104 11-C5	C204 24-D5	J11 16-C2	R45 7-C5	R142 24-C4	U31 16-C6		
C11	2-B7	C105 11-B4	C205 24-D8	J12 22-A6	R46 7-B5	R143 24-B2	U32 16-A6		
C12	2-A5	C107 11-C4	C207 24-C8	J13 23-D1	R47 7-D5	R144 24-B2	U33 17-C5		
C13	2-A4	C108 11-C3	C208 24-C8	J14 25-C3	R48 7-B4	R145 24-B2	U34 18-C4		
C14	2-D2	C109 11-C3	C209 24-D5	J15 25-B4	R49 7-C4	R146 24-B2	U35 19-A5		
C15	2-D2	C110 11-C3	C210 24-B5	J16 25-A4	R50 9-A7	R147 24-B2	U36 19-C3		
C16	2-D2	C112 11-C2	C211 24-B5	J17 25-D3	R51 8-D7	R148 24-B2	U37 20-B7		
C17	2-D2	C113 14-A7	C212 24-D6	J18 25-D3	R52 8-C7	R149 24-A2	U38 21-B5		
C18	2-D2	C114 14-D6	C213 24-B5	J19 25-C3	R53 8-D6	R150 21-C3	U39 21-C3		
C19	2-D1	C115 14-C6	C214 24-A5	J20 16-C2	R54 8-C6	R151 8-B5	U40 22-D7		
C20	2-D1	C116 14-C6	C215 24-D5	J21 18-A8	R55 8-D6	R152 8-A5	U41 22-C7		
C21	2-D1	C117 14-C6	C216 24-D5	L1 2-D8	R56 8-C6	R153 8-A5	U42 22-B7		
C22	3-D8	C118 14-B6	C217 24-A2	L2 9-B8	R57 8-D6	R500 13-D1	U43 22-B7		
C23	3-D8	C119 14-A6	C218 25-D3	L3 8-B7	R58 8-C6	R501 13-B1	U44 22-A7		
C24	3-D7	C120 14-D6	C219 25-C3	L4 8-A7	R59 8-B5	R502 13-C1	U45 22-C6		
C25	3-D7	C121 14-C6	C220 25-A3	L5 8-B4	R60 8-D6	R503 22-B2	U46 22-A4		
C26	3-D7	C123 14-C6	C221 25-A3	L6 10-B4	R61 8-C6	R504 22-A2	U47 23-C7		
C27	3-D7	C124 14-B6	C222 16-C2	L7 10-D8	R62 8-D5	R507 23-A6	U49 24-C6		
C28	4-D8	C125 14-D6	C223 16-C2	L8 20-C4	R63 8-C5	R508 23-A4	U100 23-B6		
C29	4-D8	C126 14-C6	C224 16-B2	L9 20-C4	R64 8-D5	R509 23-B6	U102 23-A4		
C30	4-D7	C127 14-C6	C225 16-B2	L10 20-B4	R65 8-C5	R510 23-B5	U103 23-B5		
C31	4-D7	C128 14-C6	C226 25-A5	L11 23-D6	R66 8-D5	R511 23-A3	U104 23-A5		
C32	4-D7	C130 14-A6	C227 25-A4	L12 11-C7	R67 8-C5	R513 24-C6	U105 22-D2		
C33	4-D7	C132 14-C5	C228 25-A4	L13 13-D6	R68 8-D4	R514 24-B6	U106 24-B6		
C34	4-D6	C133 14-C5	C230 23-C2	L14 20-D5	R69 8-D4	R519 24-B5	U107 13-A7		
C35	5-B2	C134 14-C5	C231 23-C2	L15 24-D6	R70 8-C4	R520 24-B5	U108 22-D2		
C36	5-A2	C136 14-D5	C232 23-D7	L16 8-B4	R71 8-C4	VR1 14-A6			
C37	5-B2	C137 14-C5	C501 13-D5	L17 8-A4	R72 8-D4	VR2 14-A4			
C38	5-B2	C138 14-C5	C502 13-C5	L18 8-A4	R73 8-D4	VR3 23-B4			
C39	5-A2	C139 14-C5	C503 13-D5	L19 13-D5	R74 9-C3				
C40	5-B2	C140 14-B5	C504 13-C5	L20 24-D4	R75 9-A3				
C41	5-A2	C141 14-D5	C505 18-C7	L500 13-D2	R76 9-B3				
C42	5-B2	C142 14-C5	C506 13-D2	L501 13-B2	R77 10-B7				
C43	5-B1	C143 14-C5	C507 13-D2	L502 13-C2	R78 10-B5				
C44	5-A1	C145 14-B5	C508 13-B2	LP1 6-C3	R79 11-C6				
C45	6-D7	C146 14-A4	C509 13-B2	RP1 2-C4	R80 11-B3				
C46	6-D7	C147 14-D4	C510 13-C2	RP2 3-D1	R81 11-C3				
C47	6-C6	C148 14-C4	C511 13-C2	RP3 3-C1	R82 12-C6				
C48	6-C6	C149 14-C4	C512 23-B4	RP4 4-C3	R83 13-C6				
C49	6-C6	C150 14-C4	C513 23-B4	RP5 4-B3	R84 13-D6				
C50	6-C6	C151 14-B4	C514 23-B3	RP6 4-C3	R85 16-B5				
C51	6-B4	C152 14-A4	C515 23-B3	RP7 4-B3	R86 16-C6				
C52	6-B4	C153 14-D4	C516 24-B5	RP8 4-B3	R87 16-C5				
C53	6-B4	C154 14-C4	C517 24-B5	RP9 10-D5	R88 16-C5				
C54	6-C2	C155 14-C4	C518 23-C5	RP10 10-D5	R89 13-D6				
C55	6-C2	C156 14-C4	C519 13-D5	RP11 17-C3	R90 13-C6				
C56	6-C1	C157 14-B4	D1 8-A7	RP12 17-B3	R91 13-D3				
C57	9-B8	C158 14-D4	D2 10-B5	RP13 18-C8	R92 13-D3				
C58	9-B8	C159 14-C4	D3 16-D7	RP14 18-C8	R93 16-B5				
C59	8-A6	C160 14-C4	D100 23-B5	RP15 18-D7	R94 13-D3				
C60	8-A6	C161 14-C4	D101 23-B5	RP16 18-C7	R95 16-D6				
C61	8-A6	C162 14-B4	DZ1 13-D6	R108 18-B7	R96 16-C6				
C62	8-A6	C163 14-A4	DZ2 13-C6	R109 18-B7	R97 16-C5				
C63	8-D6	C164 16-C6	DZ3 24-A3	R110 18-B7	R98 16-C5				
C64	8-C6	C165 16-D5	F1 6-D3	R111 18-C7	R99 16-C5				
C65	8-D6	C166 16-D5	F2 10-B5	T1 23-C5	R100 18-B6				
C66	8-C6	C167 16-C5	FL1 25-D6	T100 23-B5	R112 18-B6				
C67	8-D5	C168 16-C4	FL2 25-C7	R113 18-D6	R113 18-B6				
C68	8-C5	C169 17-C5	FL3 25-C7	R114 18-B6	U1 2-A7				
C69	8-D5	C170 17-C5	FL4 25-B7	R115 18-C5	U2 2-A3				
C70	8-C5	C171 17-C3	FL5 25-B7	R116 18-C5	U3 3-A3				
C71	8-D5	C172 17-B3	FL6 25-B7	R117 18-B4	U4 4-D5				
C72	8-C5	C173 18-C8	FL7 25-B7	R118 18-C3	U5 5-C7				
C73	8-C4	C174 18-D7	FL8 25-A7	R119 20-D6	U6 5-C7				
C74	8-D4	C175 18-D7	FL9 25-A7	R120 19-B6	U7 5-C6				
C77	9-D8	C176 18-C7	FL10 25-C7	R121 19-B6	U8 5-C6				
C78	9-D8	C177 18-B7	G1 2-D7	R122 19-B6	U9 5-C5				
C79	9-D8	C178 18-B7	G2 9-A8	R123 19-B6	U				