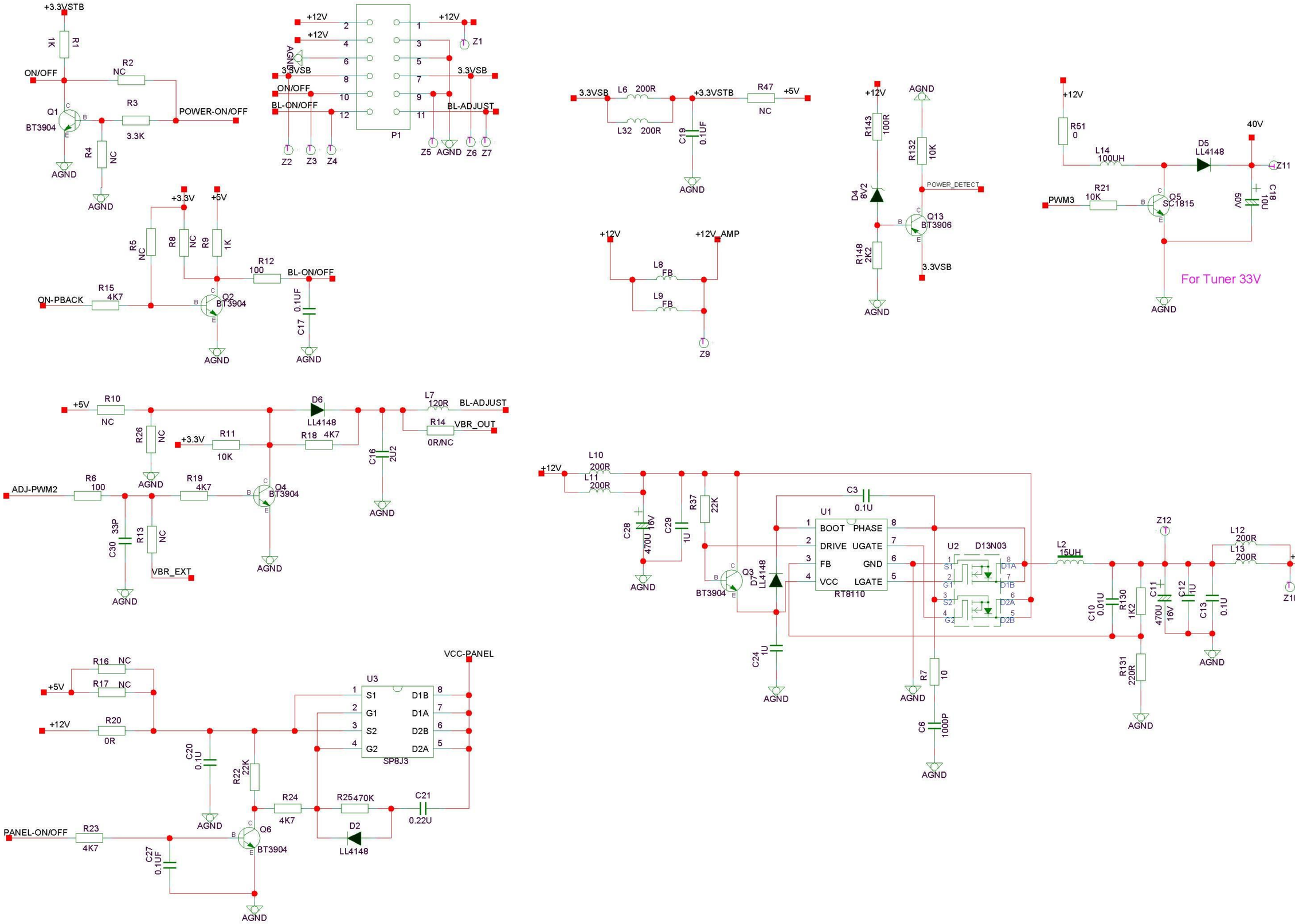
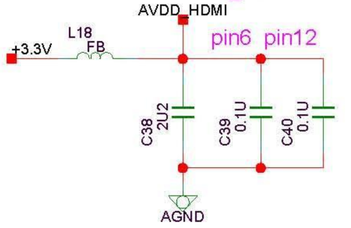
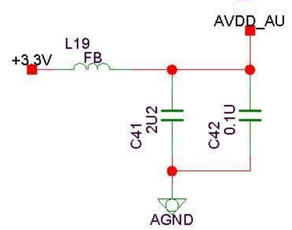
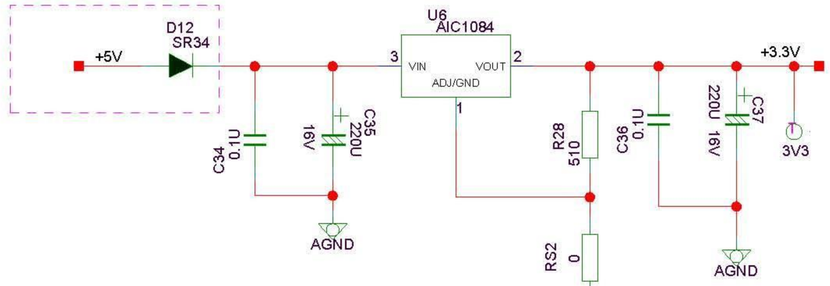
PARKER
SERVICE MANUAL

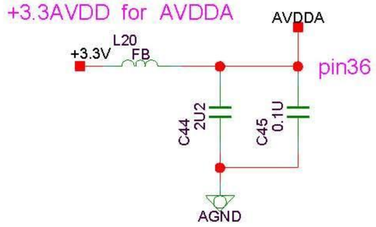
LCD
TL32N9

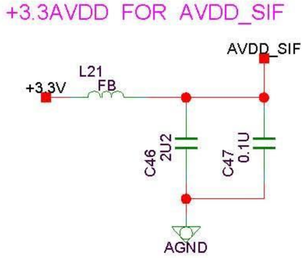

+3.3VSTB
R1 1K
ON/OFF
R2 NC
Q1 BT3904
R3 3.3K
POWER-ON/OFF
R4 NC
AGND
+12V
+12V
+12V
+12V
AGND
3.3VSB
3.3VSB
ON/OFF
BL-ON/OFF
BL-ADJUST
P1
Z1
Z2 Z3 Z4
Z5 AGND Z6 Z7
3.3VSB L6 200R
+3.3VSTB
R47 +5V
NC
L32 200R
C19 0.1UF
AGND
+12V
AGND
R143 100R
R132 10K
POWER_DETECT
D4 8V2
Q13 BT3906
R148 2K2
3.3VSB
AGND
+12V
R51 0
L14 100UH
D5 LL4148
40V
Z11
PWM3
R21 10K
Q5 SC1815
C18 10U 50V
For Tuner 33V
AGND
+3.3V
+5V
R5 NC
R8 NC
R9 1K
R12 100
BL-ON/OFF
R15 4K7
ON-PBACK
Q2 BT3904
AGND
C17 0.1UF
AGND
+12V
+12V_AMP
L8 FB
L9 FB
Z9
+5V
R10 NC
D6 LL4148
L7 120R
BL-ADJUST
R14 0R/NC
VBR_OUT
R26 NC
+3.3V
R11 10K
R18 4K7
C16 2U2
AGND
R6 100
ADJ-PWM2
R19 4K7
Q4 BT3904
C30 33P
R13 NC
VBR_EXT
AGND
AGND
L10 200R
+12V
L11 200R
C28 470U 16V
C29 1U
R37 22K
AGND
C3 0.1U
U1
BOOT PHASE
DRIVE UGATE
FB GND
VCC LGATE
RT8110
Q3 BT3904
D7 LL4148
C24 1U
AGND
U2 D13N03
L2 15UH
Z12
L12 200R
L13 200R
+5V
Z10
C10 0.01U
R130 1K2
C11 470U 16V
C12 1U
C13 0.1U
AGND
R131 220R
AGND
R7 10
C6 1000P
AGND
R16 NC
+5V
R17 NC
+12V
R20 0R
U3
S1 G1 S2 G2
D1B D1A D2B D2A
SP8J3
VCC-PANEL
C20 0.1U
AGND
R22 22K
R24 4K7
R25 470K
C21 0.22U
PANEL-ON/OFF
R23 4K7
Q6 BT3904
D2 LL4148
C27 0.1UF
AGND

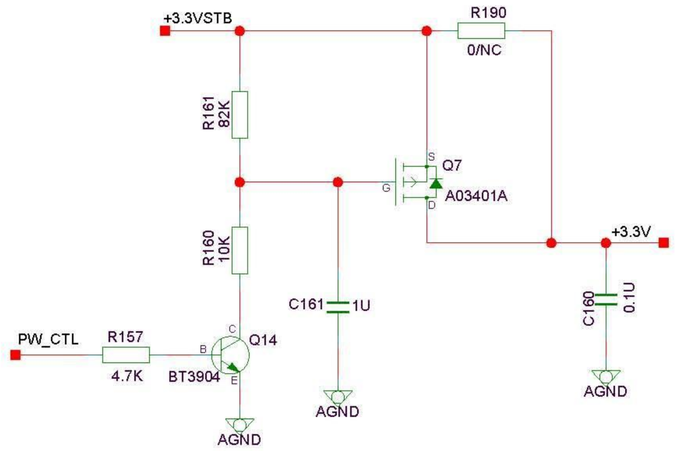

+3.3AVDD for AVDD_HDMI
AVDD_HDMI
pin6 pin12
+3.3V
L18
FB
C38 2U2
C39 0.1U
C40 0.1U
AGND

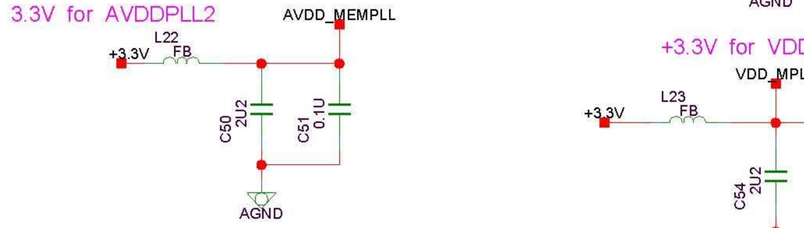

+3.3AVDD FOR AVDD_AU
AVDD_AU
+3.3V
L19
FB
C41 2U2
C42 0.1U
AGND

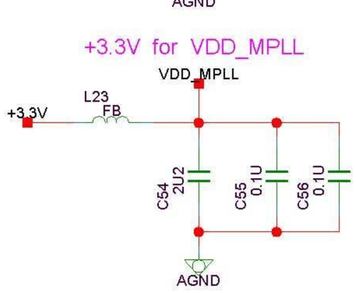

D12
SR34
+5V
U6
AIC1084
VIN
VOUT
ADJ/GND
+3.3V
C34 0.1U
C35 220U 16V
R28 510
C36 0.1U
C37 220U 16V
3V3
RS2 0
R29 820
AGND

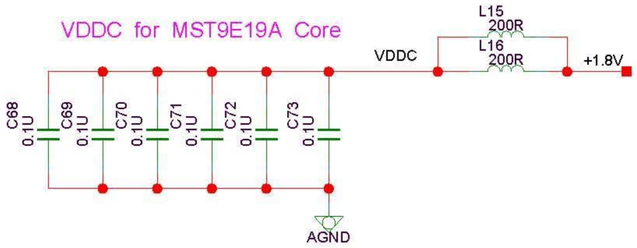

+3.3AVDD for AVDDA
AVDDA
pin36
+3.3V
L20
FB
C44 2U2
C45 0.1U
AGND

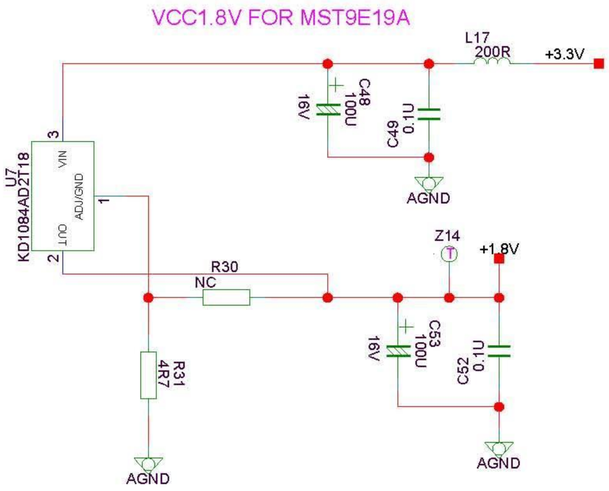

+3.3AVDD FOR AVDD_SIF
AVDD_SIF
+3.3V
L21
FB
C46 2U2
C47 0.1U
AGND

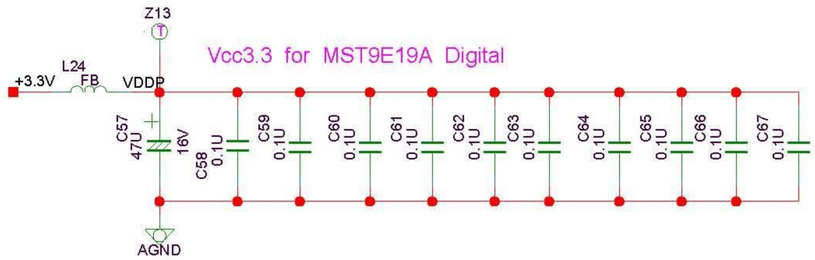

+3.3VSTB
R190
0/NC
R161 82K
Q7
A03401A
R160 10K
+3.3V
C161 1U
C160 0.1U
PW_CTL
R157
4.7K
Q14
BT3904
AGND


3.3V for AVDDPLL2
AVDD_MEMPLL
+3.3V
L22
FB
C50 2U2
C51 0.1U
AGND


+3.3V for VDD_MPLL
VDD_MPLL
+3.3V
L23
FB
C54 2U2
C55 0.1U
C56 0.1U
AGND


VDDC for MST9E19A Core
L15
200R
L16
200R
VDDC
+1.8V
C68 0.1U
C69 0.1U
C70 0.1U
C71 0.1U
C72 0.1U
C73 0.1U
AGND


VCC1.8V FOR MST9E19A
L17
200R
+3.3V
U7
KD1084AD2T18
VIN
ADJ/GND
OUT
C48 100U 16V
C49 0.1U
AGND
Z14
+1.8V
R30
NC
R31 4R7
C53 100U 16V
C52 0.1U
AGND


Vcc3.3 for MST9E19A Digital
Z13
L24
+3.3V
FB
VDDP
C57 47U 16V
C58 0.1U
C59 0.1U
C60 0.1U
C61 0.1U
C62 0.1U
C63 0.1U
C64 0.1U
C65 0.1U
C66 0.1U
C67 0.1U
AGND

DVI INPUT

VGA INPUT

SCART INPUT

VIDEO INPUT

Mode Selection

Debug Port

Audio Output(to Amp)

Location Near IC Pin.

AV Output(Audio)

NC

HDCP I2C address at A4

I2C address at A0

MST9E19A

AGND

R223 R224 R225 R226

P12

RX2+ 1 HDMI-RX2+ — R86 10R — R_TX2+
GND1 2
RX2- 3 HDMI-RX2- — R87 10R — R_TX2-
RX1+ 4 HDMI-RX1+ — R88 10R — G_TX1+
GND2 5
RX1- 6 HDMI-RX1- — R89 10R — G_TX1-
RX0+ 7 HDMI-RX0+ — R90 10R — B_TX0+
GND3 8
RX0- 9 HDMI-RX0- — R91 10R — B_TX0-
RXC+ 10 HDMI-RXC+ — R92 10R — TXCLK+
GND4 11
RXC- 12 HDMI-RXC- — R93 10R — TXCLK-
NC1 13
NC2 14
DDCCLK 15
DDCDA 16
GND5 17
VCC 18
HPD 19

Z38 Z37 Z36

HDMI/5V

R227 R228 R229 R230

AGND

HOTPLG Z35

AGND

+5V

D8 BAT54C

R94 1K

R95 4K7 R96 4K7

R97 10K

Z55

U12

M24C02MN
VCC 8 · WC 7 · SCL 6 · SDA 5 · E0/NC 1 · E1/NC 2 · E2/NC 3 · VSS 4

C120 0.1U

H-EDID-WP(T)

R98 100R — HDMI-DDC-SCL

R99 100R — HDMI-DDC-SDA

Z47 HDMI_SCL

Z48 HDMI_SDA

R100 NC

H-EDID-WP(B)

AGND

HDMI-HPD

V270RA R231 V270RA R232

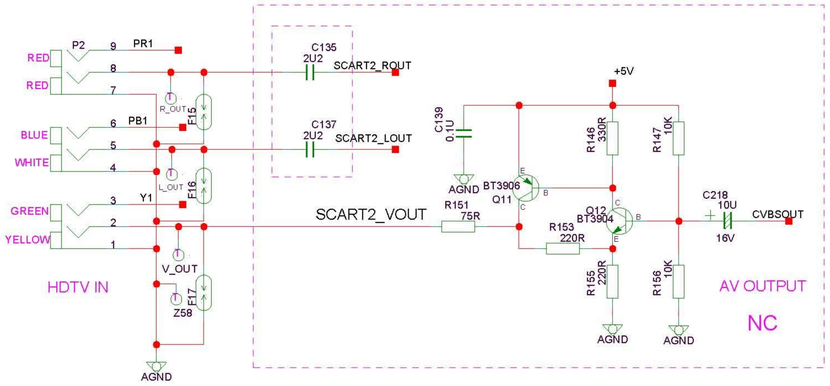
AGND

Q10 BT3904

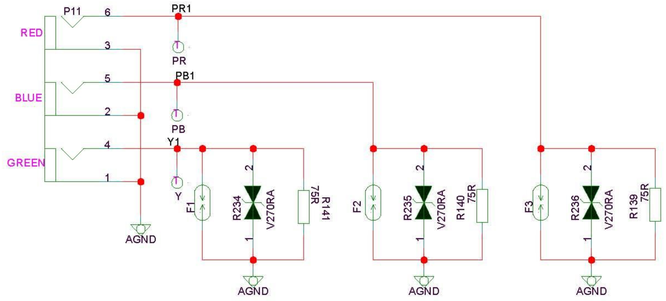
R101 1K — HPDCTRL

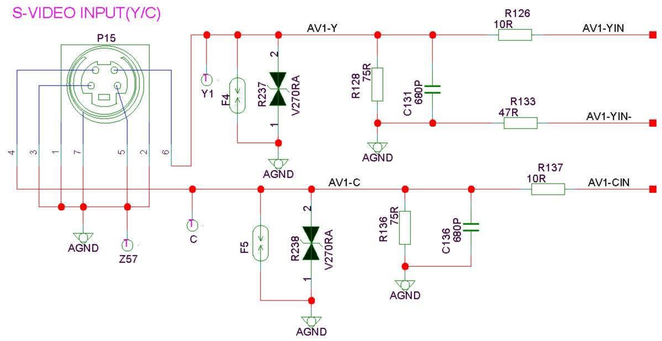
AGND

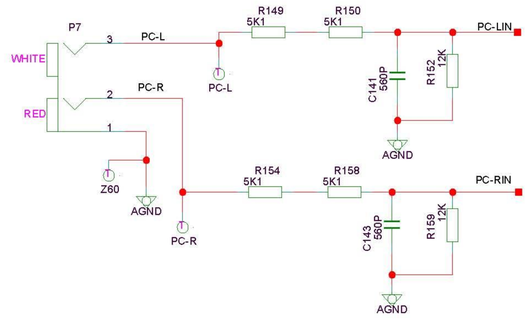
P13
16
5
15
10
4
14
9
3
13
8
2
12
7
1
11
6
17
AGND
GND
Z62
F14
R188
V270RA
R144
100R
PROTECT
B
VGA-B+
R103
10R
C121
0.047U
BIN+
G
VGA-G+
R104
10R
C122
0.047U
GIN+
R
VGA-R+
R105
10R
C123
0.047U
RIN+
R106
330R
C124
1000P
SOG
F7
R180
V270RA
F8
R181
V270RA
F9
R182
V270RA
R107
75R
R108
75R
R109
75R
R110
47R
C125
0.047U
BIN-
R111
47R
C126
0.047U
GIN-
R113
47R
C127
0.047U
RIN-
VGA-SCL
VGA/5V
VGA-SDA
VGA/5V
AGND
AGND
HS
VS
VGA-HS
VGA-VS
R114
1K
HS_RGB
R115
1K
VS_RGB
VGA-SDA
VGA-SCL
+5V
BAT54C
D9
F10
R186
V270RA
F11
R187
V270RA
R118
4K7
R119
4K7
AGND
C130
0.1U
AGND
U13
M24C02MN
E0/NC
E1/NC
E2/NC
VSS
VCC
WC
SCL
SDA
Z41
R122
4K7
R120
10R
R121
10R
PC-DDC-WP(B)
R123_NC
PROTECT
PC-DDC-WP(T)
Z39
Z40
AGND
F12
R192
V270RA
F13
R193
V270RA
R116
10K
C128
NC
R117
4K7
C129
NC
AGND
+5V
R172
NC
R196
0
Q18
2N7002
TXD
VGA-SDA
R173
10R
+5V
R174
NC
R197
0
Q19
2N7002
RXD
R170
NC
+3.3V
VGA-SCL
R175
10R

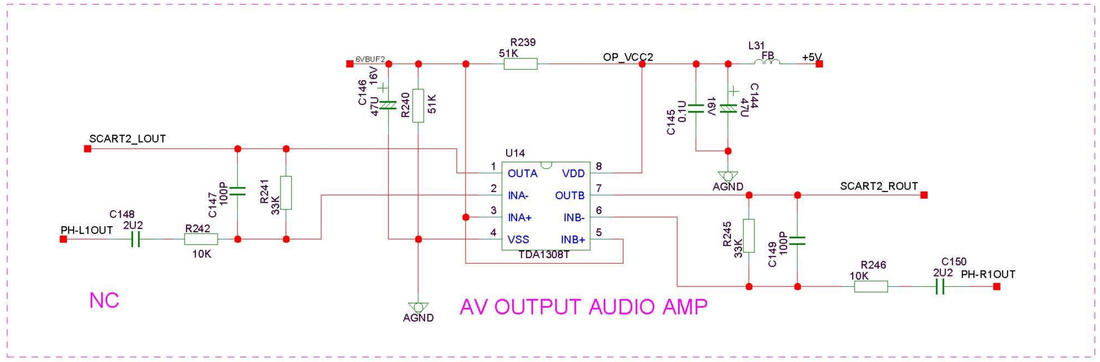

P2
RED
RED
BLUE
WHITE
GREEN
YELLOW
PR1
PB1
Y1
R_OUT
L_OUT
V_OUT
E15
E16
E17
Z58
C135
2U2
SCART2_ROUT
C137
2U2
SCART2_LOUT
SCART2_VOUT
HDTV IN
AGND

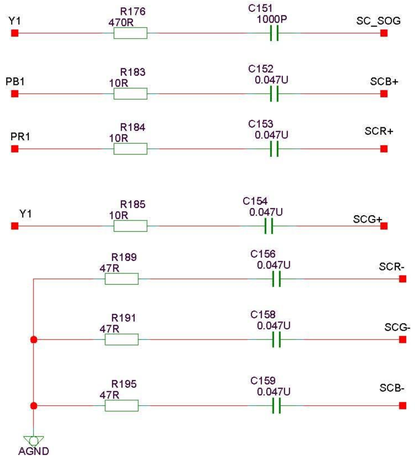
C139
0.1U
+5V
R146
330R
R147
10K
BT3906
Q11
Q12
BT3904
R151
75R
R153
220R
R155
220R
R156
10K
C218
10U
16V
CVBSOUT
AV OUTPUT
NC
AGND

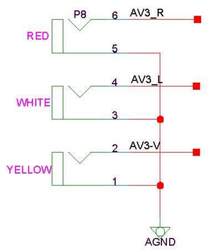

P11
RED
BLUE
GREEN
PR1
PB1
Y1
PR
PB
Y
F1
F2
F3
R234
R235
R236
V270RA
R141
R140
R139
75R
AGND

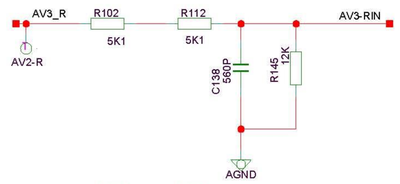

S-VIDEO INPUT(Y/C)
P15
AV1-Y
AV1-C
Y1
C
F4
F5
R237
R238
V270RA
R128
R136
75R
C131
C136
680P
R126
10R
R133
47R
R137
10R
AV1-YIN
AV1-YIN-
AV1-CIN
Z57
AGND

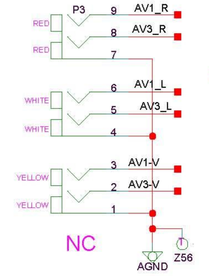

P7
WHITE
RED
PC-L
PC-R
Z60
R149
5K1
R150
5K1
R154
5K1
R158
5K1
C141
560P
C143
560P
R152
12K
R159
12K
PC-LIN
PC-RIN
AGND

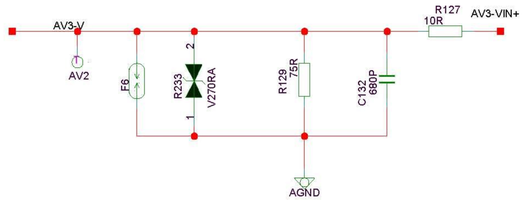

8VBUF2
R239
51K
OP_VCC2
L31
FB
+5V
C146
47U
16V
R240
51K
C145
0.1U
C144
47U
SCART2_LOUT
U14
OUTA
INA-
INA+
VSS
VDD
OUTB
INB-
INB+
TDA1308T
C147
100P
R241
33K
C148
2U2
PH-L1OUT
R242
10K
R245
33K
C149
100P
R246
10K
C150
2U2
PH-R1OUT
SCART2_ROUT
NC
AV OUTPUT AUDIO AMP
AGND

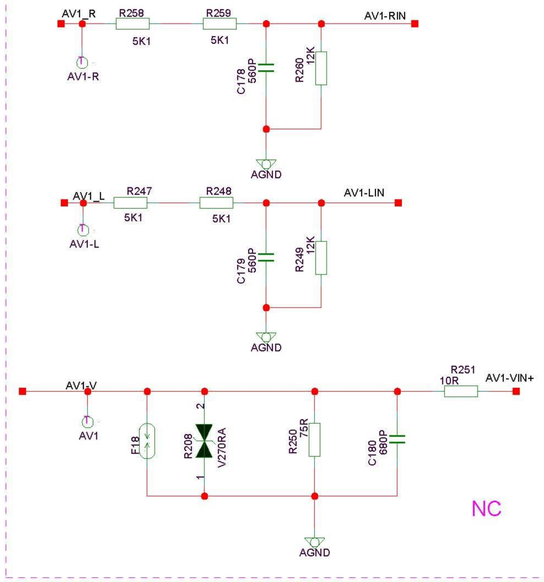

Y1
PB1
PR1
R176
470R
C151
1000P
SC_SOG
R183
10R
C152
0.047U
SCB+
R184
10R
C153
0.047U
SCR+
R185
10R
C154
0.047U
SCG+
R189
47R
C156
0.047U
SCR-
R191
47R
C158
0.047U
SCG-
R195
47R
C159
0.047U
SCB-
AGND

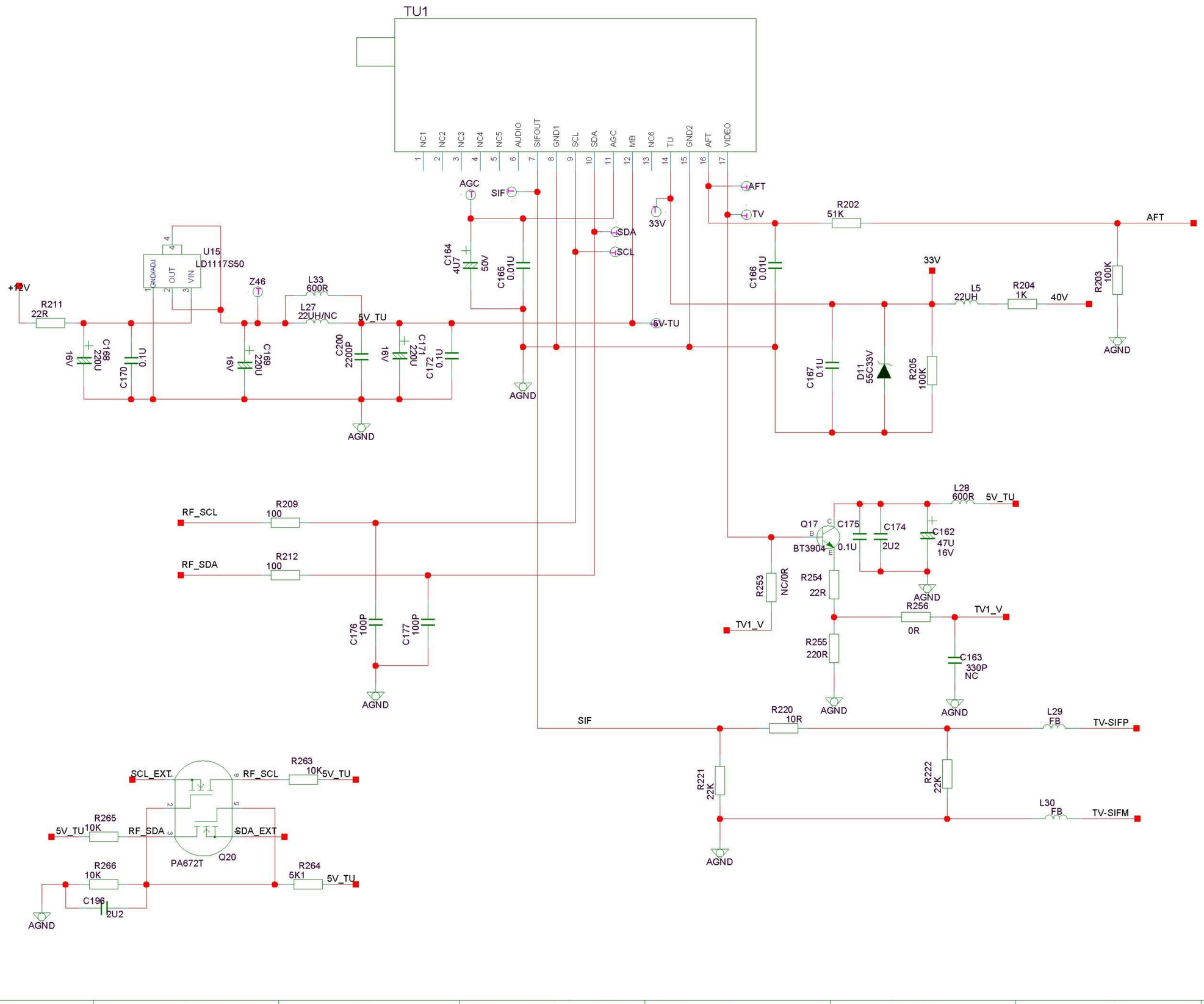

P8
RED
WHITE
YELLOW
AV3_R
AV3_L
AV3-V
AGND

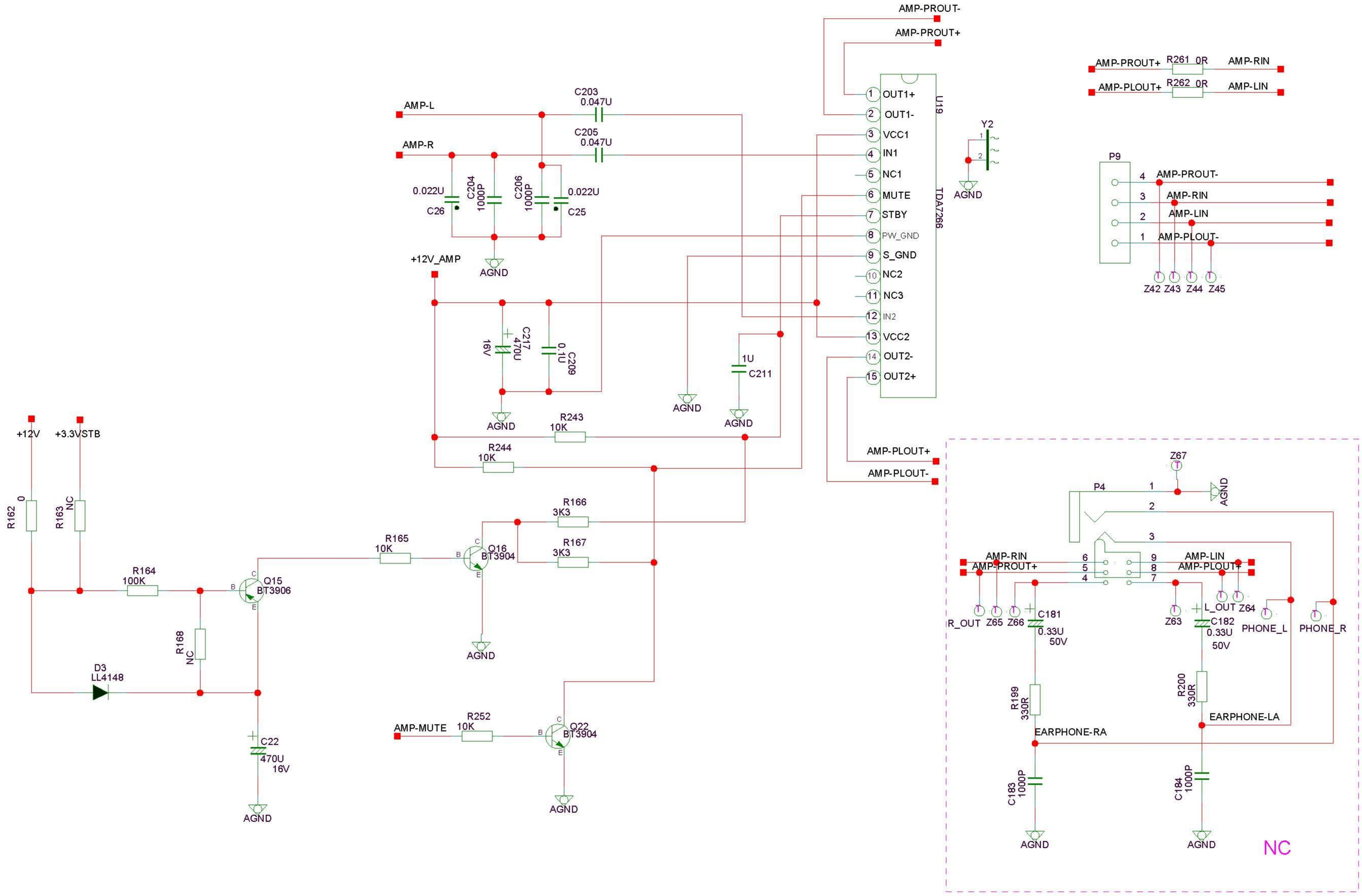

AV3_R
R102
R112
AV3-RIN
AV2-R
5K1
C138
560P
R145
12K
AV3_L
R138
R134
AV3-LIN
AV2-L
C134
560P
R135
12K
AGND

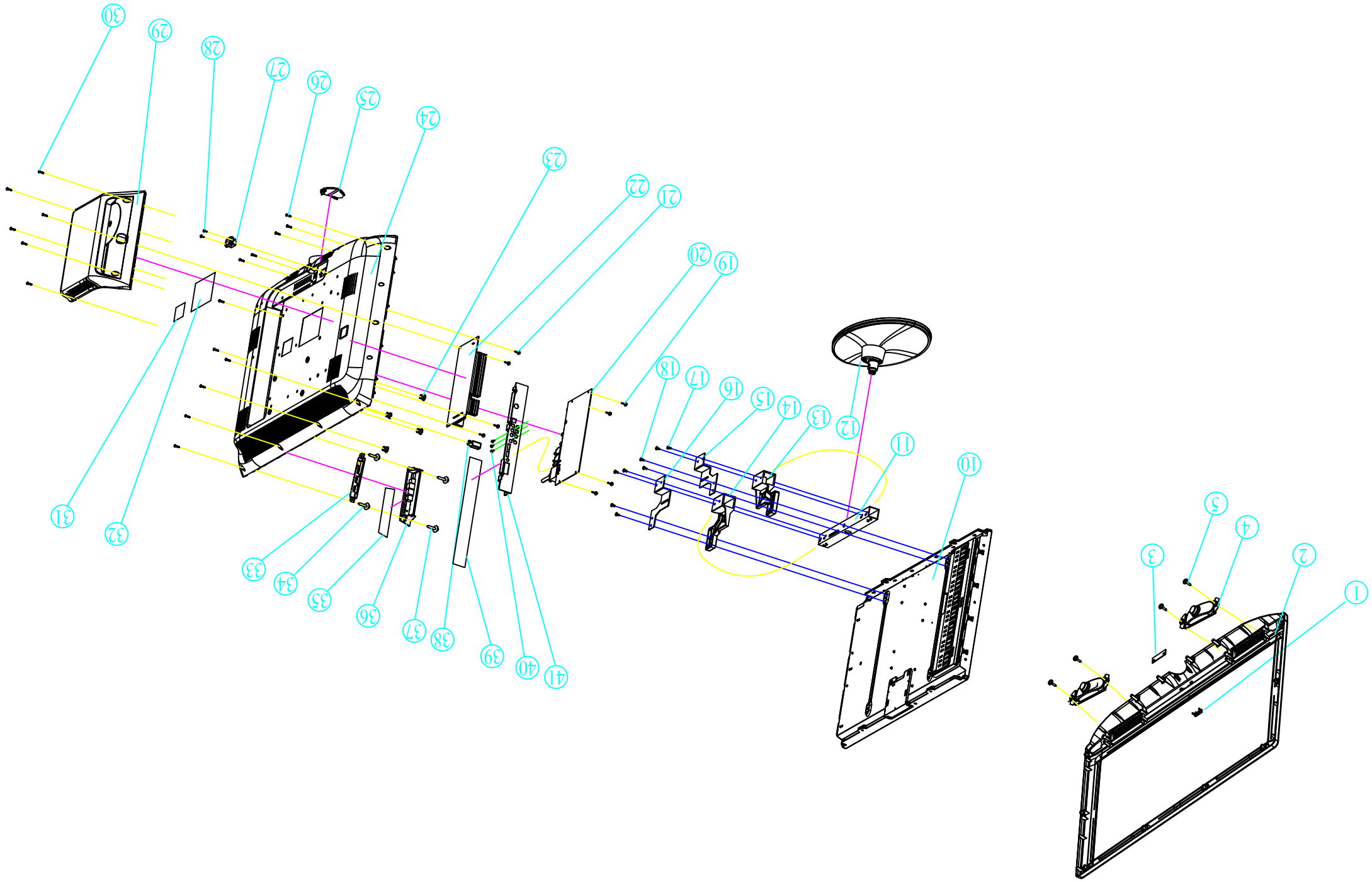

P3
RED
RED
WHITE
WHITE
YELLOW
YELLOW
AV1_R
AV3_R
AV1_L
AV3_L
AV1-V
AV3-V
NC
AGND
Z56


AV3-V
AV2
F6
R233
V270RA
R129
75R
C132
680P
R127
10R
AV3-VIN+
AGND


AV1_R
AV1-R
R258
R259
AV1-RIN
5K1
C178
560P
R260
12K
AV1_L
AV1-L
R247
R248
AV1-LIN
C179
560P
R249
12K
AV1-V
AV1
F18
R208
V270RA
R250
75R
C180
680P
R251
10R
AV1-VIN+
NC
AGND


TU1
NC1 NC2 NC3 NC4 NC5 AUDIO SIFOUT GND1 SCL SDA AGC MB NC6 TU GND2 AFT VIDEO
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
AGC
SIF
AFT
TV
33V
SDA
SCL
5V-TU
U15
LD1117S50
GND/ADJ OUT VIN
+12V
R211
22R
Z46
L33
600R
L27
22UH/NC
5V_TU
C164
4U7
50V
C165
0.01U
C166
0.01U
R202
51K
AFT
33V
L5
22UH
R204
1K
40V
R203
100K
AGND
C168
220U
16V
C170
0.1U
C169
220U
16V
C200
2200P
C171
220U
16V
C172
0.1U
C167
0.1U
D11
55C33V
R205
100K
L28
600R
5V_TU
Q17
BT3904
C175
0.1U
C174
2U2
C162
47U
16V
R253
NC/0R
R254
22R
R256
0R
TV1_V
R255
220R
C163
330P
NC
R209
100
RF_SCL
R212
100
RF_SDA
C176
100P
C177
100P
R220
10R
L29
FB
TV-SIFP
L30
FB
TV-SIFM
R221
22K
R222
22K
SIF
SCL_EXT
SDA_EXT
RF_SCL
RF_SDA
R263
10K
R265
10K
R266
10K
R264
5K1
C196
2U2
PA672T
Q20


AMP-PROUT-
AMP-PROUT+
AMP-L
AMP-R
C203
0.047U
C205
0.047U
0.022U
C26
C204
1000P
C206
1000P
0.022U
C25
AGND
+12V_AMP
C217
470U
16V
C209
0.1U
AGND
R243
10K
R244
10K
AGND
1U
C211
AGND
U19
TDA7266
1 OUT1+
2 OUT1-
3 VCC1
4 IN1
5 NC1
6 MUTE
7 STBY
8 PW_GND
9 S_GND
10 NC2
11 NC3
12 IN2
13 VCC2
14 OUT2-
15 OUT2+
Y2
AGND
AMP-PLOUT+
AMP-PLOUT-
AMP-PROUT+ R261 0R AMP-RIN
AMP-PLOUT+ R262 0R AMP-LIN
P9
4 AMP-PROUT-
3 AMP-RIN
2 AMP-LIN
1 AMP-PLOUT-
Z42 Z43 Z44 Z45
+12V
+3.3VSTB
R162 0
R163 NC
R164
100K
Q15
BT3906
R165
10K
Q16
BT3904
R166
3K3
R167
3K3
AGND
R168
NC
D3
LL4148
C22
470U
16V
AGND
AMP-MUTE
R252
10K
Q22
BT3904
AGND
Z67
P4
1
2
3
AGND
AMP-RIN
AMP-PROUT+
AMP-LIN
AMP-PLOUT+
R_OUT Z65 Z66
C181
0.33U
50V
Z63
L_OUT Z64
C182
0.33U
50V
PHONE_L
PHONE_R
R199
330R
R200
330R
EARPHONE-RA
EARPHONE-LA
C183
1000P
C184
1000P
AGND
AGND
NC



Exploded View & Parts List