REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:

P103
1 VROUT_A
2 GND1
3 15V–
4 15V+
5 DELAYA
6 S.LED_A
7 D.LED_A
8 THERMAL_B
9 GNDA

U1 TO U201
NJM13700M
U2
DDT ADAPTOR BOARD

R121 47 1/4W

U300–C LM358 C300 0.1

R198 4.7 C111 0.1 U102–C 4560 C110 0.1 R199 4.7
R194 4.7 C102 0.1 U100–C 4560 C107 0.1 R195 4.7

15V+ 15V+PA 15V+IA 15V– 15V–PA 15V–IA

CR113 1N4007
R124 4K 5W
R122 100K 1/4W
R123 4.7K 1/4W
C113 22u 50V
CR115 15V
R125 4.7FP 1/4W
CR116 1SS244
CR117 1N4148
C114 100P 200V
Q104 2SC4793
CR118 1N4148
R126 4.7K 1/4W
C115 2.2u 50V
R155 330 1/4W
R127 2.2K 1/4W
R157 10K 1/4W
CR129 1N4148
Q102 8050
R128 430 1/4W
CR130 1N4148
CR119 5.1V
CR131 1N4148
CR120 5.1V
R129 430 1/4W
CR132 1N4148
8550 Q103
R156 330 1/4W
R130 2.2K 1/4W
R158 10K 1/4W
BIAS POT
VR101 250 B
C116 2.2u 50V
CR121 1N4148
R131 4.7K 1/4W
Q105 2SA1837
CR122 1N4148
C117 100P 200V
CR123 1SS244
CR114 1N4007
R132 100K 1/4W
R133 4.7K 1/4W
R135 4K 5W
R134 4.7FP 1/4W
C118 22u 50V
CR124 15V

Q106 MJE15032
C119 .033 50V
C120 0.22u 250V
R137 22 1W
R136 390 1/4W
R138 22 1W
Q107 MJE15033

T3
Q108 2SC5200
Q109 2SC5200
Q110 2SC5200
Q111 See Note
R140 2.7K 1/4W
R141 2.7K 1/4W
R144 .33 5W
R145 .33 5W
R146 .33 5W
R147 See Note
Q112 2SA1943
Q113 2SA1943
Q114 2SA1943
Q115 See Note
R142 2.7K 1/4W
R143 2.7K 1/4W
R139 180FP 1/4W
R148 .33 5W
R149 .33 5W
R150 .33 5W
R151 See Note

D100 25A 400V
C127 0.01u 630V
C123 0.01u 630V
TX14 TX13 TX12
CR125 1N5402
CR126 1N5402
C128 See Note
C121 See Note
C122 See Note
C129 See Note
C124 0.01u 630V
C126 0.1u 250V
R154 5.6 5W

T4
R152 22 1W
OUTA
L100 1.7MH
SPK+ SPK– GNDA GNDA
CR128 BTB24–600BWRG
CR151 2N5064
CR152 2N5064
R191 33K 1W
R192 10 1/4W
R193 100 1/4W
C125 10u 50V (NP)

VR100 50KB
OUTA VROUT_A
CR100 1N4148
CR101 1N4148
C100 2.2u 50V (NP)
R101 18K
R102 18K
U100–A 4560
Q100 J174
Q101 J174
R100 22K
PARALLEL RUNS
C104 22u 50V
C105 22u 50V
R108 1.43K 1% 1/4W
R109 1.43K 1% 1/4W
R106 22K
C101 0.1
P101
1 GND1
2 BDFED
3 DDTS1A
4 DDTS2A
DELAYA
SHORT AS POSSIBLE --->
C106 100P
U100–B 4560
R105 10K
R110 4.7K
C108 180P 200V
C103 27P
R113 100 1% 1/4W
R111 60.4K 1% 1/4W
R1001 24K 1/6W
R112 60.4K 1% 1/4W
C112 10P 200V
C151 20P 500V
U101 TO U1
R114 10K
CR102 1N4148
R115 2.7K
C109 10u 50V
R116 10K
R107 100

<–CLOSE PROXIMITY
THERMAL_A
CR107 1N4007 HS
CR108 1N4007 HS
CR109 1N4007 HS
CR161 1N4148
R161 10K 1/4W
CR110 1N4007 HS
CR111 1N4007 HS
CR112 1N4007

POWER LED
CR300 GREEN
R300 1.5K 1/4W
CLOSE PROXIMITY–>
U102–B 4560
R117 2.7K
CR103 1N4148
R118 1K
R119 1K
DDT LED
CR301 RED
R301 1.5K 1/4W
U102–A 4560
CR104 1N4148
CR105 1N4148
CR106 1N4148
R120 33K
D.LED_A
SIGNAL LED
CR302 YELLOW
R302 1.5K 1/4W
R303 47K
U300–A LM358
CR303 1N4148
R304 22K
R305 220K
C301 10u + 50V
CR304 1N4148
CR305 1N4148
R306 33K
S.LED_A

PARALLEL RUNS

Note:

	CPX900	CPX1500
C121 C122	4700u/80V	3300u/100V
C128 C129	N.I.	3300u/100V
Q111	N.I.	2SC5200
Q115	N.I.	2SA1943
R147 R151	N.I.	.33 5W

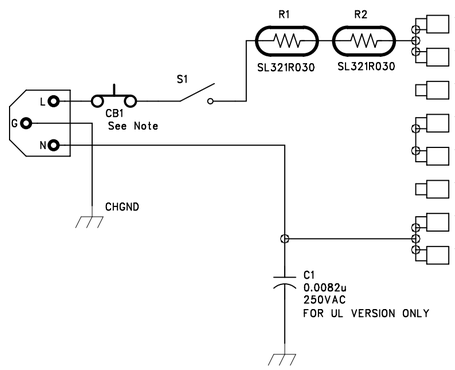
DRAWN:	DATED:
CHECKED:	DATED:
QUALITY CONTROL:	DATED:
RELEASED:	DATED:

COMPANY: Crest Audio Inc.
TITLE: CPX900/1500 POWER AMPLIFIER (CH. A)

CODE:	SIZE:	DRAWING NO:	REV:
CPX–1500			A

SCALE: SHEET: 2 OF 4

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:

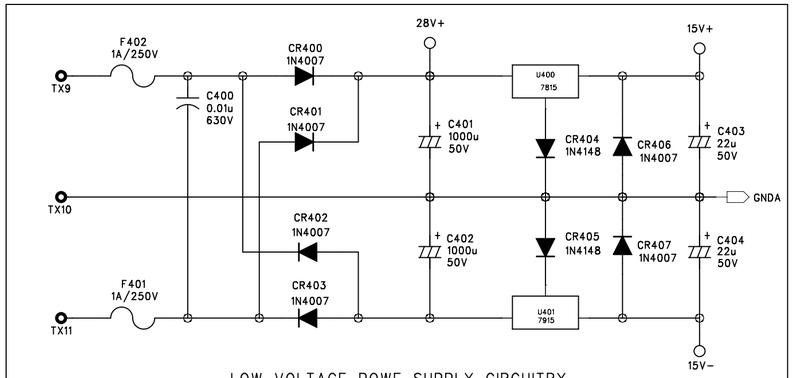


MAINS SELECT		
230V	120V	100V
PRIMARY LEADS		
BWN	RED	BLK
–	–	–
–	–	–
–	–	–
–	–	–
–	–	–
–	–	–
–	–	–
BLU	GRY	WHI
CIRCUIT BREAKER		
PV1500 8A	15A	15A
PV900 5A	10A	10A
SURGE LIMITER		
30A 2X1 ohm	30A 1 ohm	30A 1 ohm

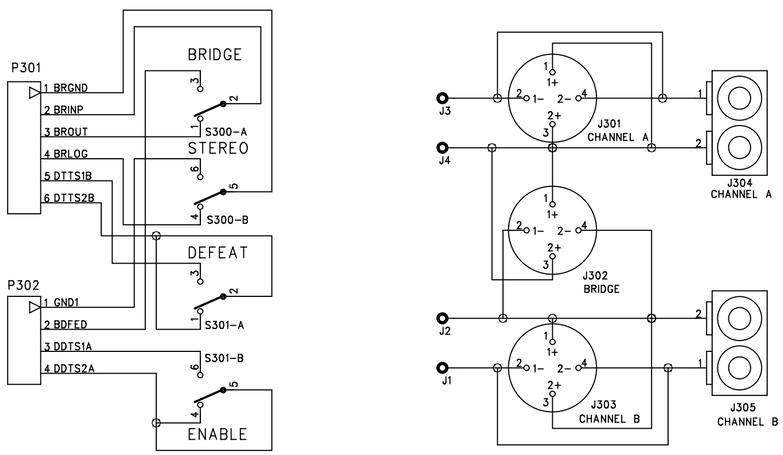
230V/120V/100V
BWN/RED/BLK

0V
BLU/GRY/WHI

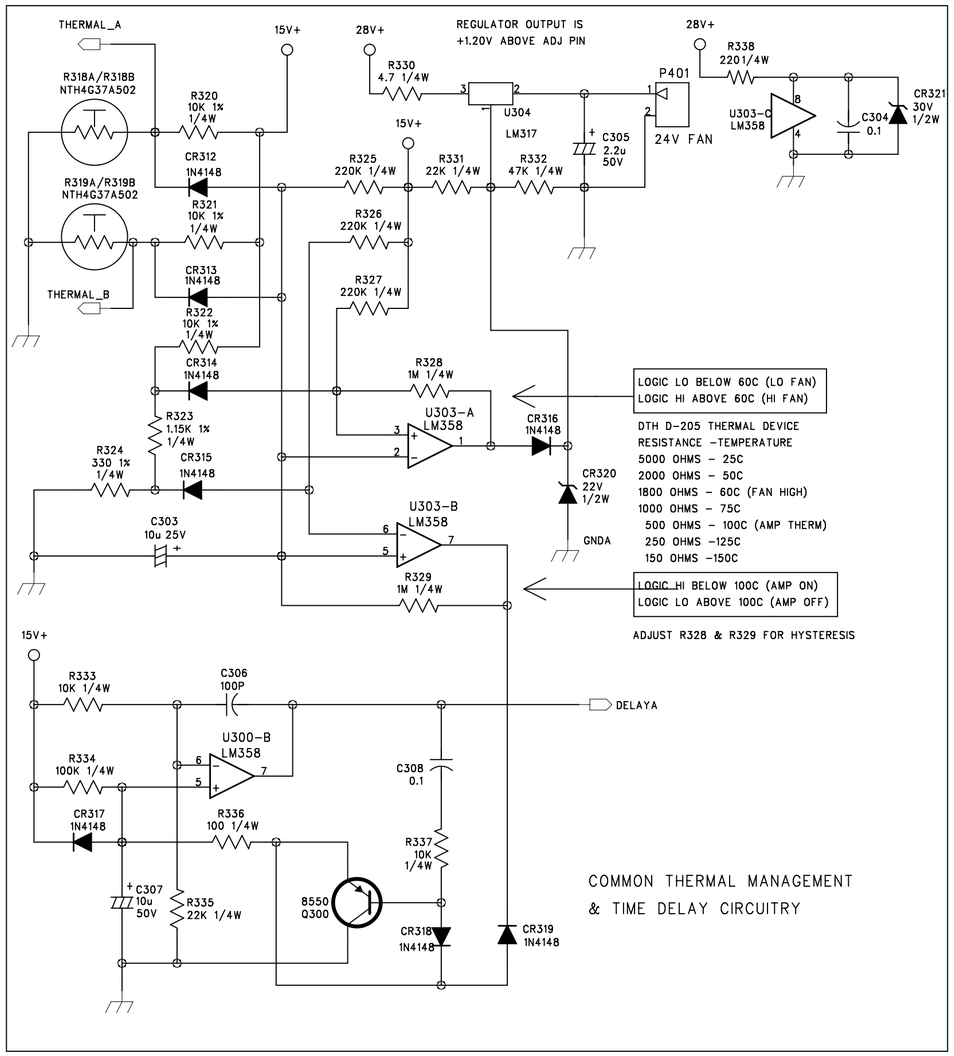
RED — TO TX15
YEL — TO TX16
RED — TO TX17
BLU — TO TX12
BLK — TO TX13
BLU — TO TX14
ORA — TO TX9
WHI — TO TX10
ORA — TO TX11



LOW VOLTAGE POWE SUPPLY CIRCUITRY



PART OF OUTPUT BOARD CIRCUITRY



COMMON THERMAL MANAGEMENT
& TIME DELAY CIRCUITRY

DRAWN:	DATED:	COMPANY: Crest Audio Inc.		
CHECKED:	DATED:	TITLE: CPX900/1500 POWER AMP (OUTPUT, POWER SUPPLY, COMMON THERMAL MANAGEMENT & TIME DELAY CIRCUITRY)		
QUALITY CONTROL:	DATED:	CODE: CPX–1500	SIZE:	DRAWING NO: / REV: A
RELEASED:	DATED:	SCALE:	SHEET: 4 OF 4	

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:

P203
1 VROUT_A
2 GND1
3 15V−
4 15V+
5 DELAYA
6 S.LED_A
7 D.LED_A
8 THERMAL_B
9 GNDA

U1 TO U201
NJM13700M
U2
DDT ADAPTOR BOARD

P100
1 OUTA
2 GND1

VR200 50KB
C200 2.2u 50V (NP)
R201 18K
R202 18K
R200 22K
Q200 J174
Q201 J174
R296 10
R297 10
U200-A 4560
R203 10K 1%
R204 10K 1%
PARALLEL RUNS
C204 22u 50V
C205 22u 50V
R208 1.43K 1% 1/4W
R209 1.43K 1% 1/4W
R206 22K
C201 0.1
C206 100P
U200-B 4560
R213 100 1% 1/4W
R205 10K
R210 4.7K
C203 27P
C208 180P 200V
R211 60.4K 1% 1/4W
R200 24K 1/6W
R212 60.4K 1% 1/4W
C212 10P 200V
C251 20P 500V
R207 100
SHORT AS POSSIBLE --->
<-CLOSE PROXIMITY
THERMAL_B
R261 10K 1/4W
CR261 1N4148
CR207 1N4007 HS
CR208 1N4007 HS
CR209 1N4007 HS
CR210 1N4007 HS
CR211 1N4007 HS
CR212 1N4007
BIAS POT VR201 250 B
CLOSE PROXIMITY->
PARALLEL RUNS

P201
1 BRGND
2 BRINP
3 BROUT
4 BRLOG
5 DTTS1B
6 DTTS2B
PARALLEL RUNS

R307 10K
R308 22K
R309 10K
R310 10K
DELAYA
LM358 U301-A
R214 10K
CR202 1N4148
R215 2.7K
C209 10u 50V
R216 10K
U201 TO U1
POWER LED
CR306 GREEN
R311 1.5K 1/4W
DDT LED
CR307 RED
R312 1.5K 1/4W
SIGNAL LED
CR308 YELLOW
R313 1.5K 1/4W
U202-A 4560
U202-B 4560
R217 2.7K
CR203 1N4148
R218 1K
R219 1K
CR204 1N4148
CR205 1N4148
CR206 1N4148
R220 33K
R314 47K
U301-B LM358
CR309 1N4148
R315 22k
R316 220K
C302 10u 50V
CR310 1N4148
CR311 1N4148
R317 33K

R221 47 1/4W
U301-C LM358
R298 4.7
R299 4.7
U202-C 4560
C211 0.1
C210 0.1
R294 4.7
R295 4.7
U200-C 4560
C202 0.1
C207 0.1

CR213 1N4007
R222 100K 1/4W
R223 4.7K 1/4W
C213 22u 50V
CR215 15V
R224 4K 5W
R225 4.7FP 1/4W
CR216 1SS244
CR217 1N4148
C214 100P 200V
Q204 2SC4793
CR218 1N4148
C215 2.2u 50V
R226 4.7K 1/4W
R255 330 1/4W
R227 2.2K 1/4W
R257 10K 1/4W
Q202 8050
CR229 1N4148
R228 430 1/4W
CR230 1N4148
CR219 5.1V
8550 Q203
R229 430 1/4W
CR231 1N4148
CR220 5.1V
CR232 1N4148
R256 330 1/4W
R230 2.2K 1/4W
R258 10K 1/4W
C216 2.2u 50V
CR221 1N4148
CR222 1N4148
CR223 1SS244
R231 4.7K 1/4W
Q205 2SA1837
C217 100P 200V
CR214 1N4007
R232 100K 1/4W
R233 4.7K 1/4W
C218 22u 50V
CR224 15V
R235 4K 5W
R234 4.7FP 1/4W

Q206 MJE15032
Q207 MJE15033
C219 .033 50V
C220 0.22u 250V
R237 22 1W
R238 22 1W
R236 390 1/4W
Q208 2SC5200
Q209 2SC5200
Q210 2SC5200
Q211 See Note
Q212 2SA1943
Q213 2SA1943
Q214 2SA1943
Q215 See Note
R240 2.7K 1/4W
R241 2.7K 1/4W
R242 2.7K 1/4W
R243 2.7K 1/4W
R239 180FP 1/4W
R244 .33 5W
R245 .33 5W
R246 .33 5W
R247 See Note
R248 .33 5W
R249 .33 5W
R250 .33 5W
R251 See Note
CR225 1N5402
CR226 1N5402

T2
T1
D200 25A 400V
C227 0.01u 630V
C223 0.01u 630V
C228 See Note
C221 See Note
C222 See Note
C229 See Note
C224 0.01u 630V
C226 0.1u 250V
C225 10u 50V (NP)
R252 22 1W
L200 1.7MH
R254 5.6 5W
R291 33K 1W
R292 10 1/4W
R293 100 1/4W
CR251 2N5064
CR252 2N5064
CR228 BTB24-600BWRG
R253 10 1W
+SPK
-SPK
GNDB
GNDB
TX17
TX16
TX15
+V V+
0V 0V
-V V-

Note:

	CPX900	CPX1500
C221 C222	4700u/80V	3300u/100V
C228 C229	N.I.	3300u/100V
Q211	N.I.	2SC5200
Q215	N.I.	2SA1943
R247 R251	N.I.	.33 5W

DRAWN:	DATED:
CHECKED:	DATED:
QUALITY CONTROL:	DATED:
RELEASED:	DATED:

COMPANY: Crest Audio Inc.
TITLE: CPX900/1500 POWER AMPLIFIER (CH. B)
CODE: CPX-1500 | SIZE: | DRAWING NO: | REV: A
SCALE: | SHEET: 3 OF 4