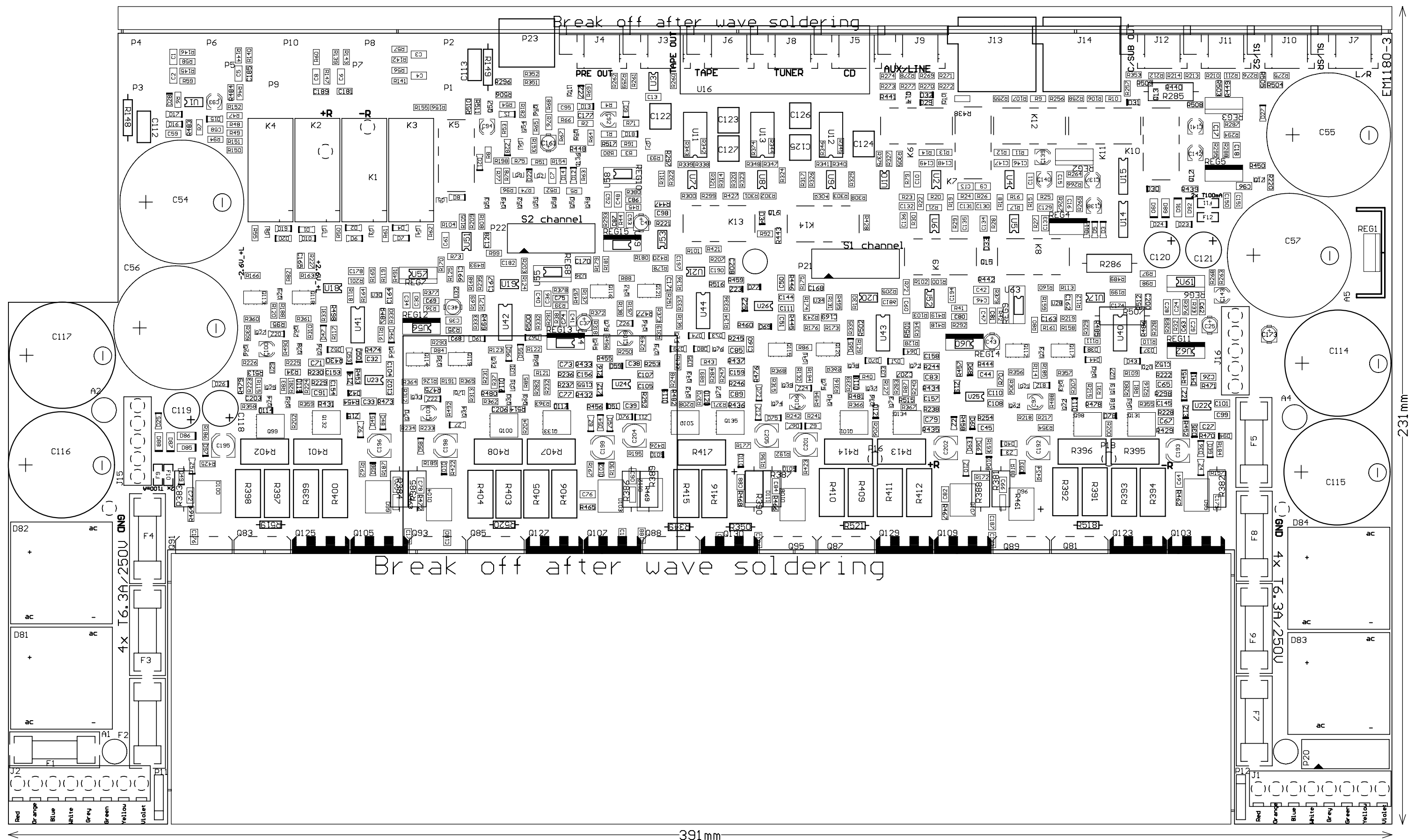
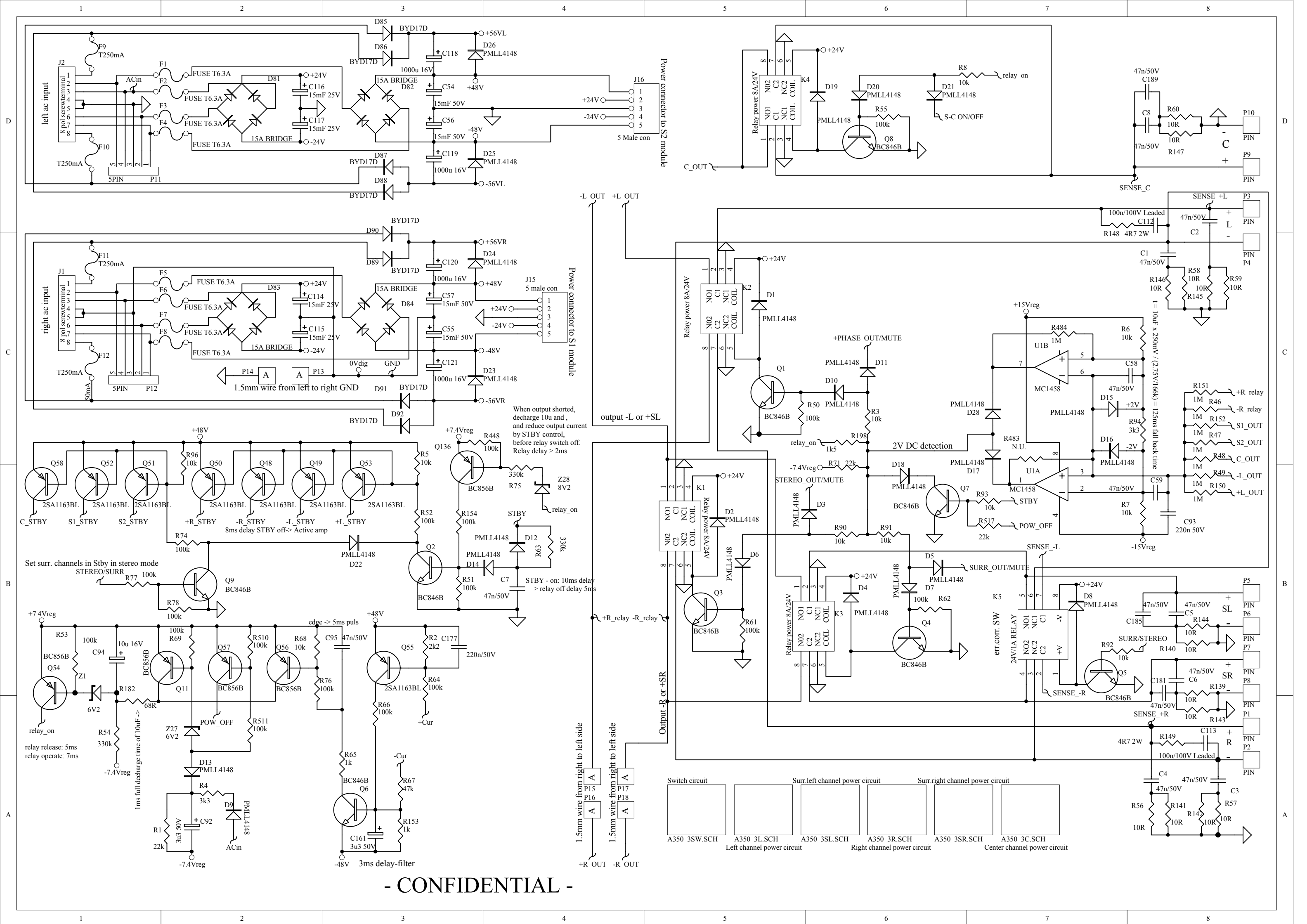


# Service manual for Thule Audio

PA350B





R311  
1k

0.5V DC can be cancelled  
GAIN =  $-5 \times 4 = -20 = -26\text{dB}$  at 20Hz

R73  
22k

7

U51B  
MC1458

C61  
220n/50V

5

330k

R105

6

R104

330k

OPAMP\_L

120W/8ohm => 44Vpeak/5.5Apeak

darlington CEsat (5A) = 0.8V  
PBYR1045 voltage drop = 0.4V  
C-E driver + BE output = 1.0V  
Emitter resistors = 0.6V  
-----  
2.8V

Vbias = 2.6V => servo out = V+  
Vbias = 4.6V => servo out = V-  
Rservo out :  
Rtop/1.5k = 2.6V/0.6V => Rtop = 6.5k  
10k/Rbut = 4.6V/0.6V => Rbut = 1.3k  
Rservo out <= 15k

Loop gain = +1V -> -1V  
svarer til input ændring:  
10mV -> (4.3 - 3.2) = 1.1V  
=> 2V out -> 1.1V in  
=> -6dB loop gain

U29  
LMV721M5

1

2

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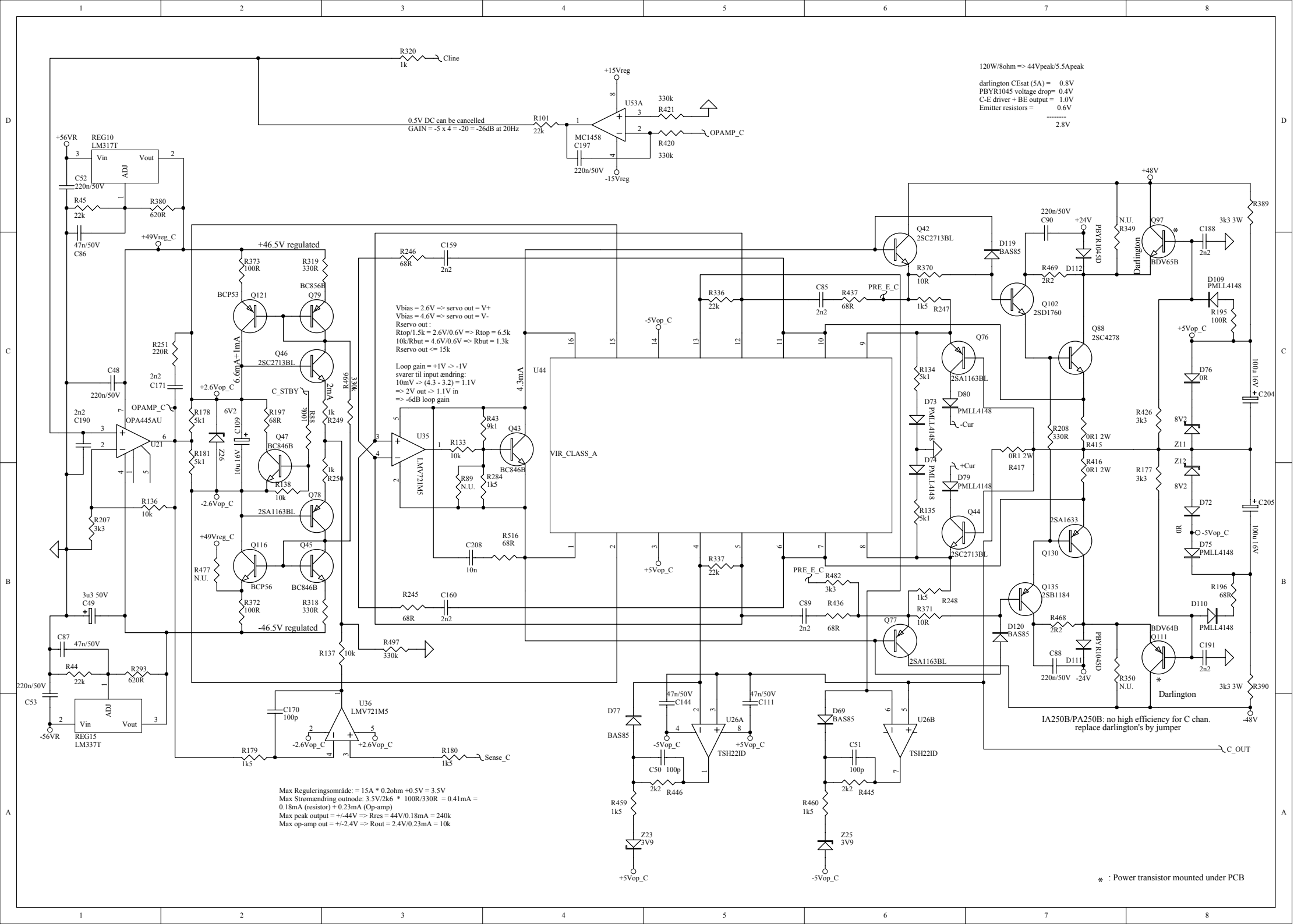
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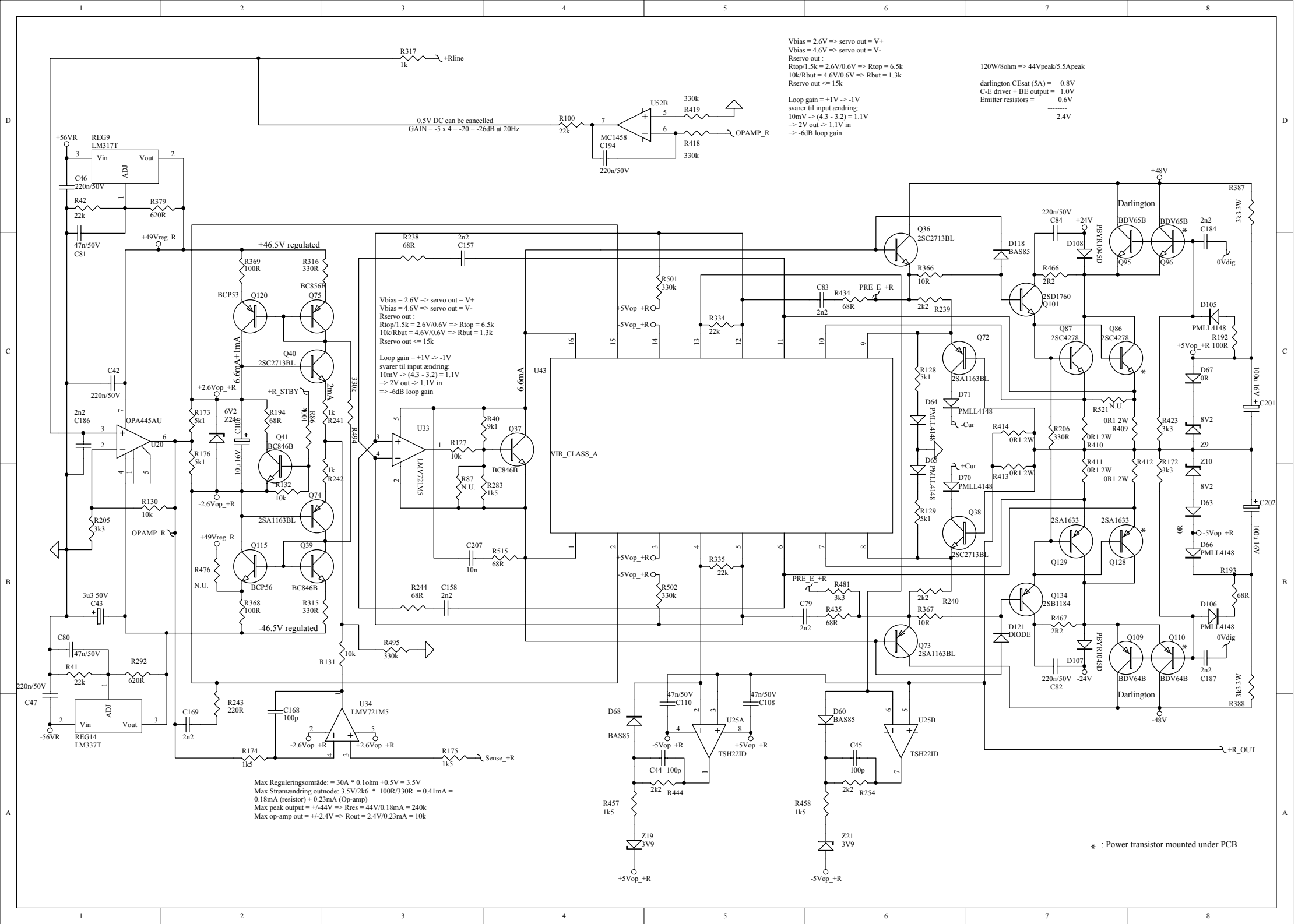
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D

C

B

A

D

C

B

A

