



Lowpass:
 10k / 820pF $f_c = 19.4$ kHz
 10k / 680pF $f_c = 23.4$ kHz
 10k / 470pF $f_c = 33.8$ kHz
 10k / 330pF $f_c = 48.3$ kHz

C401 Cutterhead forward compensation 2nd Resonance
 SX74, SX68: 100pF
 SC99: 270pF
 Caruso: 270pF
 NON FBHeads: remove, or leave open

C403 Cutterhead forward compensation
 SX74, SX68: 3n3
 SC99: 3n3
 Caruso: 3n3 can be used for better regulation
 NON FBHeads: remove, or leave open
 R405 Bass forward correction approx. 30dB at low end
 1M for SX74, SX68 SC99, Caruso for the moment.
 470k for Westrex
 Bridge with a wire for Non-feedback cutterheads

C405:
 SX74,68,SC99: 3n3
 Caruso: open
 R408:
 SX74,68,SC99: 2k2
 Caruso: 10k

R410 start with 22k depends on Poweramp Gain increase to 47k if you can not apply enough FB

R606 set FB-GAIN
 open = 0 db
 4k7 = 10 dB
 1k1 = 20 dB
 330 = 30 dB
 100 = 40 dB

For Non Feedback cutterheads:
 Bridge R405 with a wire.
 Remove C401 or unsolder one leg of R401 and bent up. open connection!
 Remove C405
 Remove SSM2019 or at least turn FB totally down.

building and testing:
 1. get all the parts.
 2. solder all resistors.
 3. solder all sockets
 4. solder all 100n Caps
 5. solder in all the other parts
 6. solder in the Jack Connectors.

solder bridge from pin1 to pin2

Caruso Preamp:
 2011: Hardware Version 1.0. Parts Error.
 2012: Hardware Version 1.1. yellow first batch
 green 2nd batch
 green 3th batch
 partslist: 1.0 original values for SC99 and Neumann Heads
 partslist 1.1 simplified for less parts
 partslist 1.3 adaptation for caruso 123 upwards
 2015: Hardware Version 3.0 with increased space for parts, espec. caps.
 and minor changes. better protection of FB amp chip
 2016: errors on schematics updated. mostly wrong part numbers

Title			caruso preamp HW Version 3_1		
Size	Number	Revision			
B		1.3			
Date:	23-Dec-2016	Sheet	of		
File:	E:\caruso_pre2.Ddb	Drawn	By:		