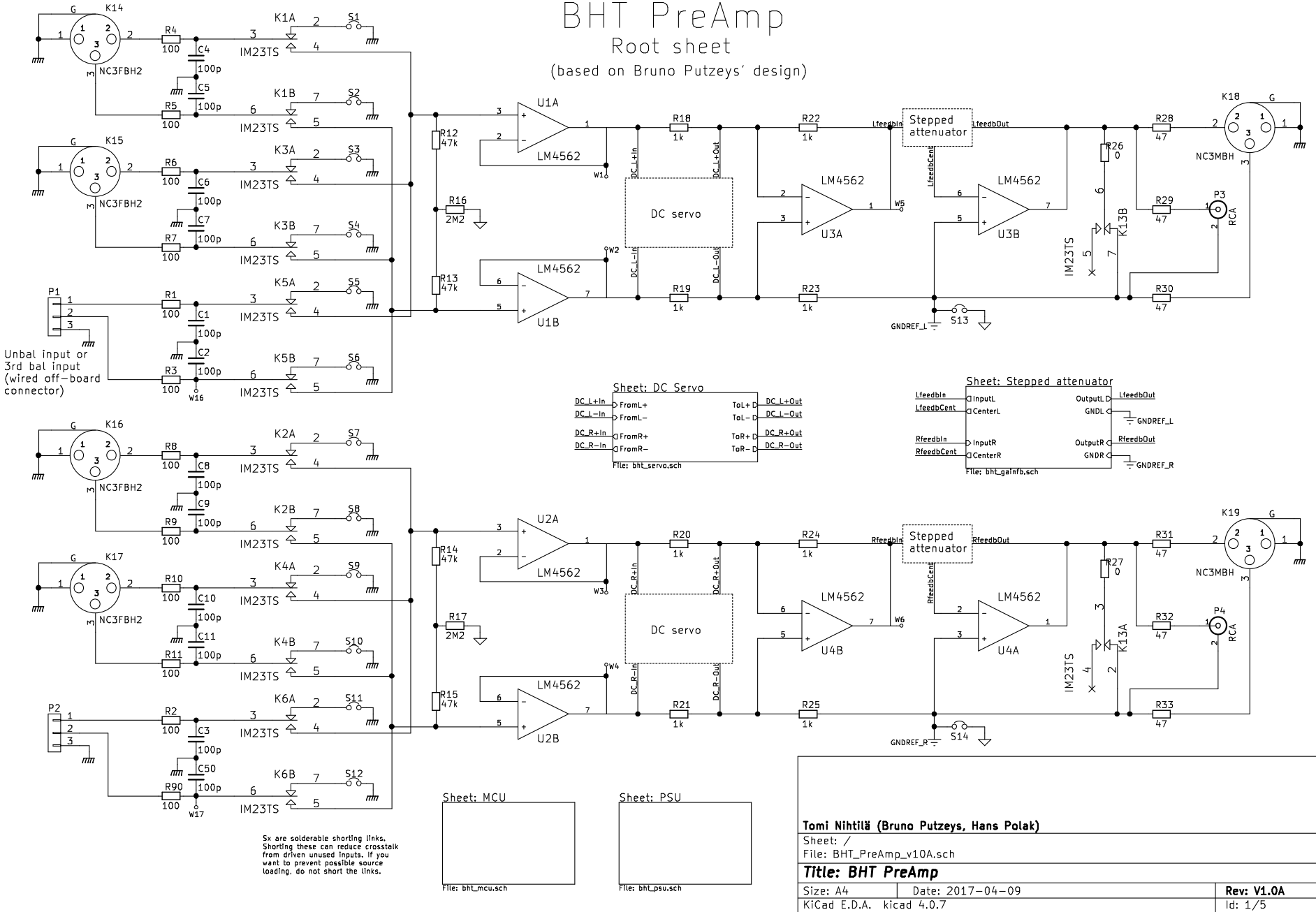
BHT PreAmp

Root sheet

(based on Bruno Putzeys' design)



Sx are solderable shorting links. Shorting these can reduce crosstalk from driven unused inputs. If you want to prevent possible source loading, do not short the links.

Tomi Nihtilä (Bruno Putzeys, Hans Polak)

Sheet: /
File: BHT_PreAmp_v10A.sch

Title: BHT PreAmp

Size: A4	Date: 2017-04-09	**Rev: V1.0A**
KiCad E.D.A. kicad 4.0.7		Id: 1/5

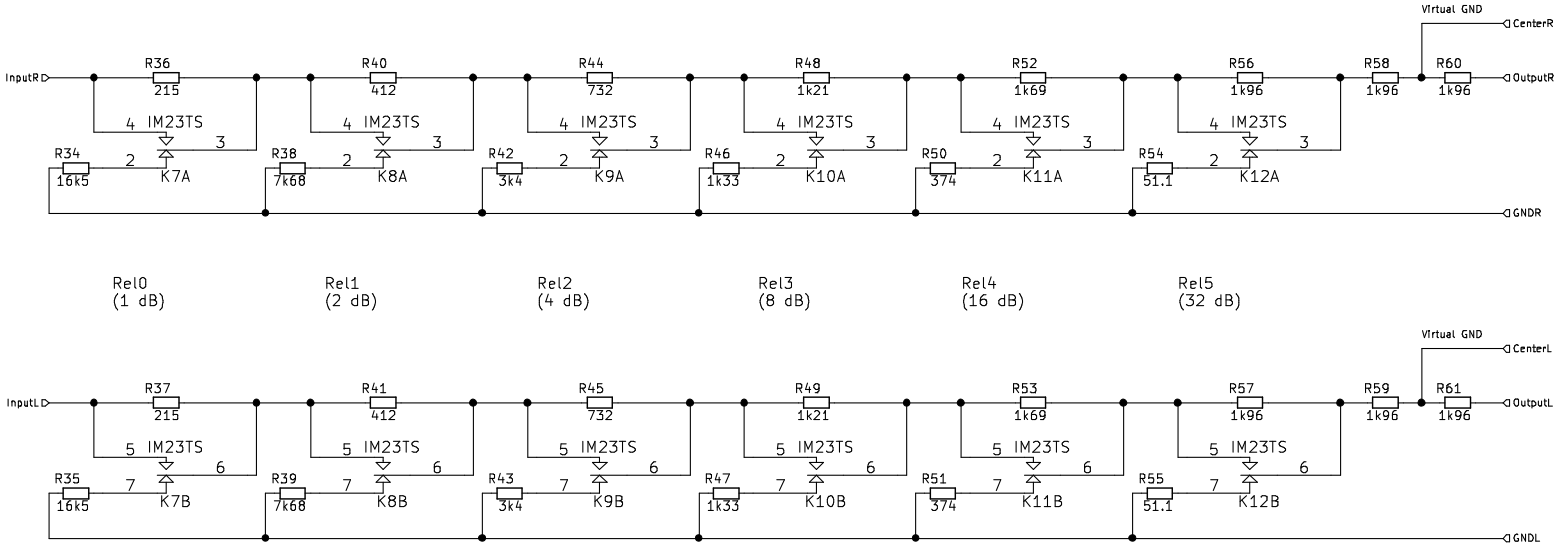
BHT PreAmp

Stepped Attenuator

(original design by Hans Polak)

64 steps, 1 dB/step.

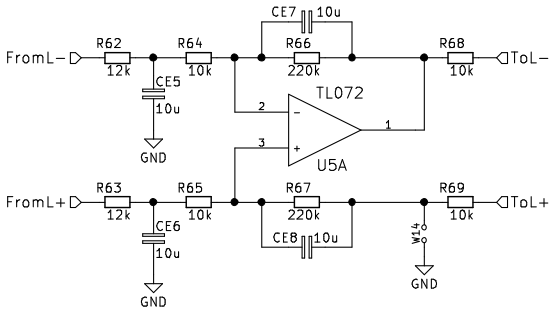
Max gain is R60/R58 (R61/R59).
With shown values:
−all relays on = 0 dB
−all relays off = −63 dB

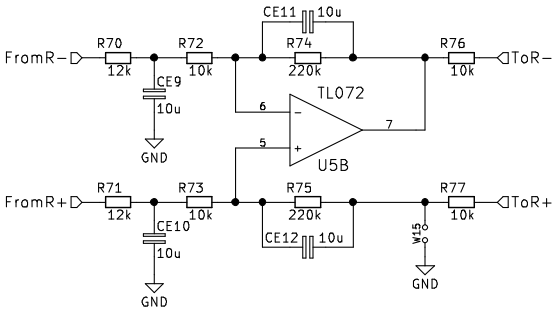


Sheet: /Stepped attenuator/ File: bht_gainfb.sch		
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad 4.0.7		Id: 2/5

BHT PreAmp

DC Servo

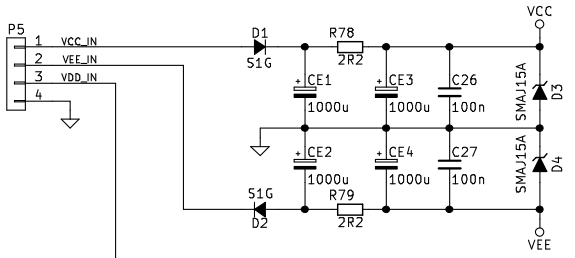




Sheet: /DC Servo/ File: bht_servo.sch		
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad 4.0.7		Id: 3/5

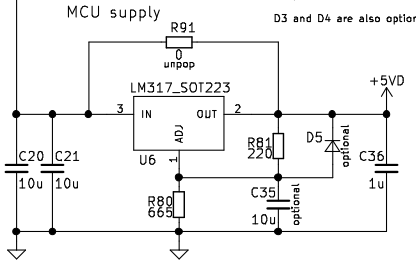
BHT PreAmp

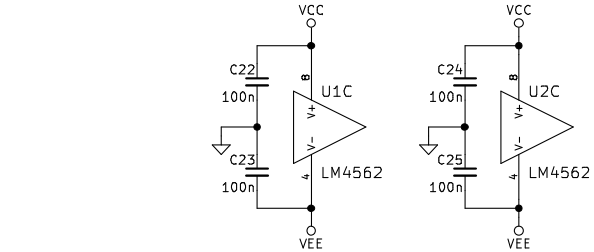
PSU

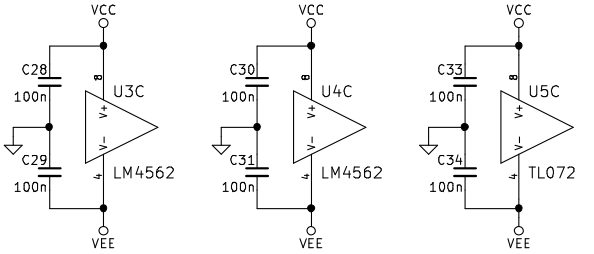


D1 and D2 are optional. They prevent other circuits/boards using the same supply from discharging reservoir caps as power-down mute relies on VDD collapsing faster than VCC/VEE.

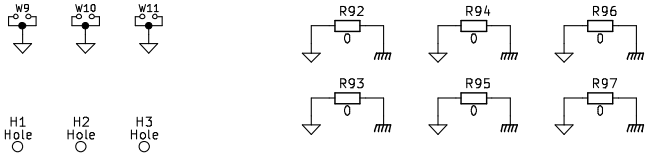
D3 and D4 are also optional protection.







Signal ground — chassis ground shorting links at input/output connectors

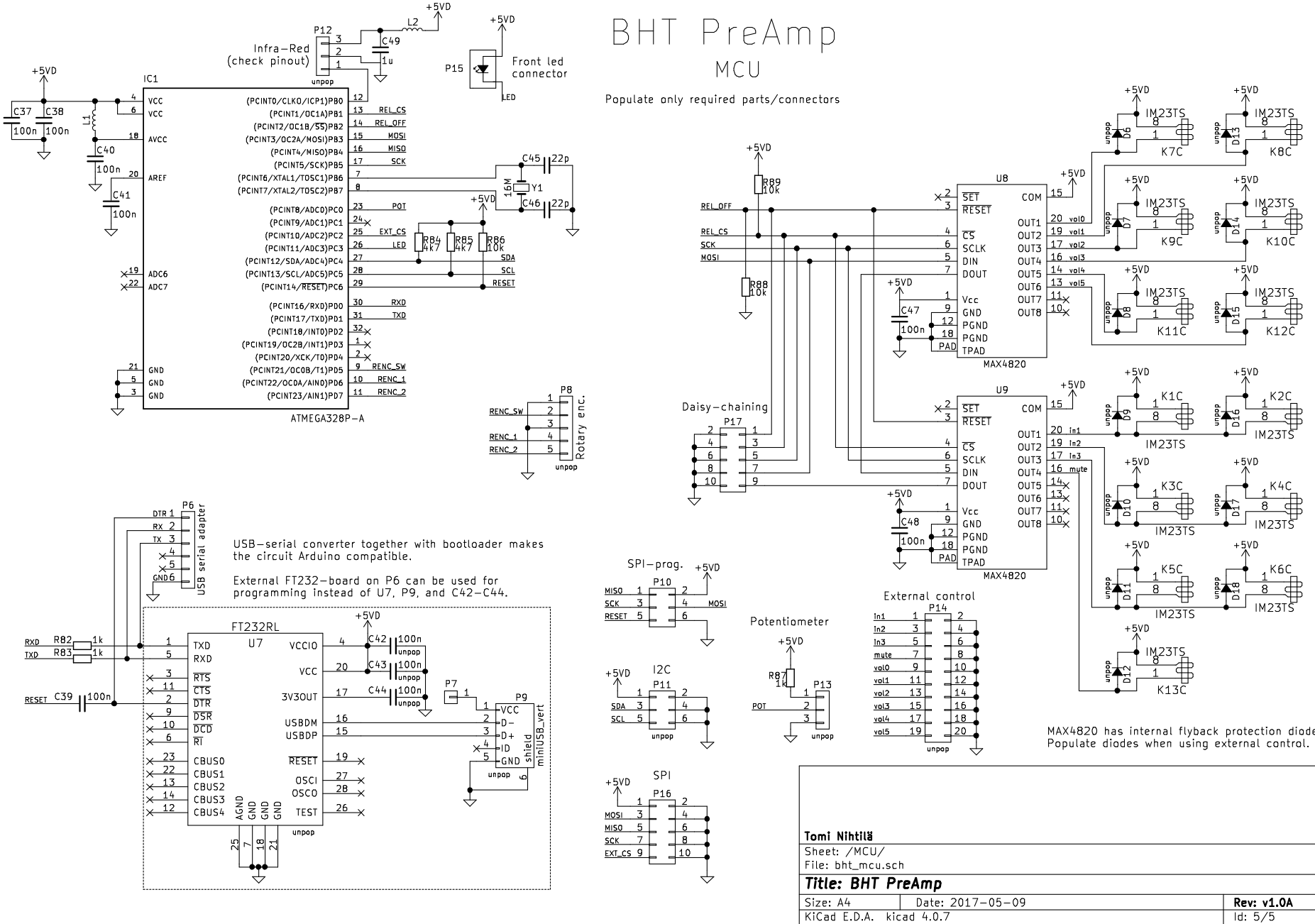


Sheet: /PSU/		
File: bht_psu.sch		
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad 4.0.7		Id: 4/5

BHT PreAmp

MCU

Populate only required parts/connectors



Tomi Nihtilä		
Sheet: /MCU/		
File: bht_mcu.sch		
Title: BHT PreAmp		
Size: A4	Date: 2017-05-09	**Rev: v1.0A**
KiCad E.D.A. kicad 4.0.7		Id: 5/5