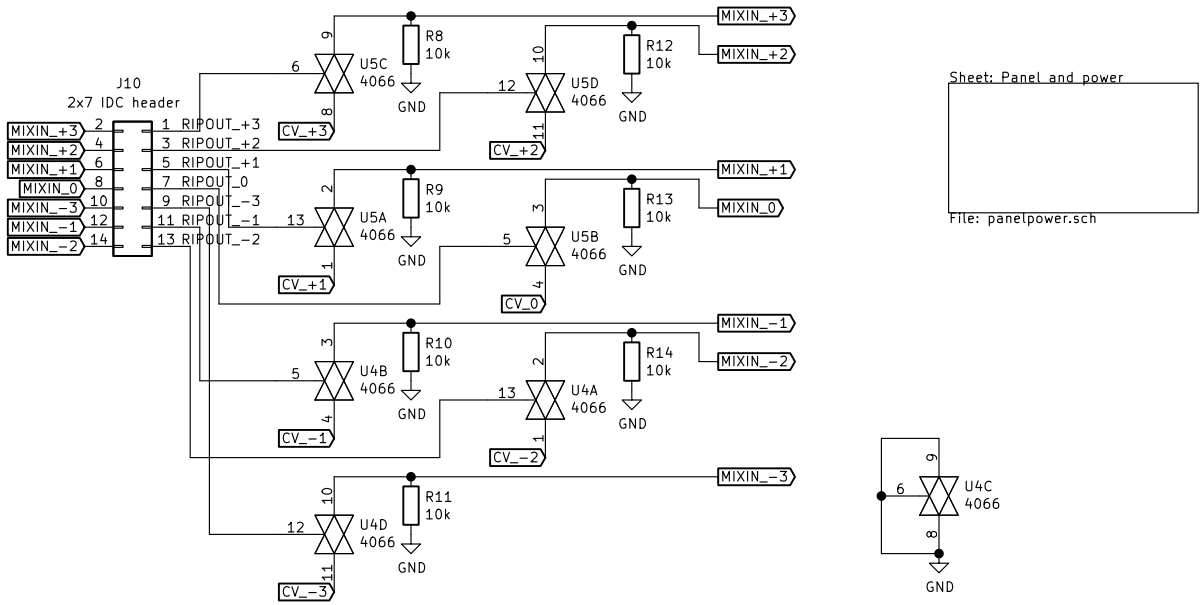
This is used in conjunction with Barton's original PCB,
built with these changes:

- Pots omitted
- Output capacitors moved to pots pads 2–3
- Ribbon cable mounted at capacitors pads
- Output stage feedback resistor omitted, 100k* pot wired to its pads
- Shrouded power header replaced by open pin header on underside
- 10 uF rail to ground capacitors omitted
- 10R capacitors replaced with 0R (or jumpers)
- 10 mm M3 nylon spacer glued to underside

*10Vpp output with 0-10V CV. Use 200k pot with 0-5V CV.



Sheet: Panel and power

File: panelpower.sch

Based on Barton 4046 wave shaper, with added CV

Analog Output / Rich Holmes

Sheet: /

File: waveshaper.sch

Title: CV Wave Shaper

Size: USLetter	Date: 2020-07-07	**Rev:**
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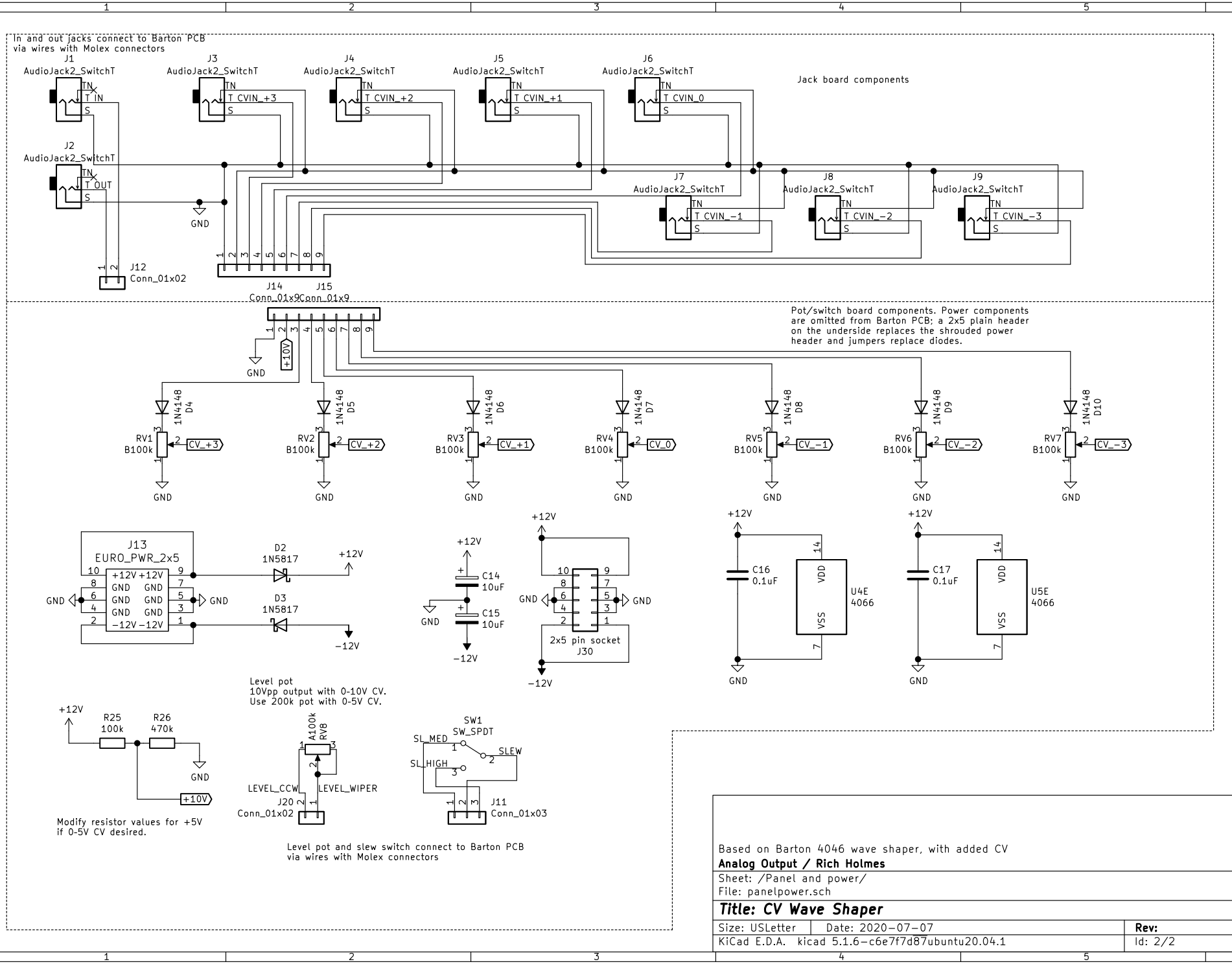
In and out jacks connect to Barton PCB
via wires with Molex connectors
J1
AudioJack2_SwitchT
T IN
J2
AudioJack2_SwitchT
T OUT
J3
AudioJack2_SwitchT
T CVIN_+3
J4
AudioJack2_SwitchT
T CVIN_+2
J5
AudioJack2_SwitchT
T CVIN_+1
J6
AudioJack2_SwitchT
T CVIN_0
Jack board components
J7
AudioJack2_SwitchT
T CVIN_-1
J8
AudioJack2_SwitchT
T CVIN_-2
J9
AudioJack2_SwitchT
T CVIN_-3
TN
S
GND
J12
Conn_01x02
J14
Conn_01x9
J15
Conn_01x9
Pot/switch board components. Power components
are omitted from Barton PCB; a 2x5 plain header
on the underside replaces the shrouded power
header and jumpers replace diodes.
+10V
1N4148
D4
D5
D6
D7
D8
D9
D10
RV1
RV2
RV3
RV4
RV5
RV6
RV7
B100k
CV_+3
CV_+2
CV_+1
CV_0
CV_-1
CV_-2
CV_-3
J13
EURO_PWR_2x5
+12V
GND
-12V
D2
D3
1N5817
C14
C15
10uF
2x5 pin socket
J30
C16
C17
0.1uF
U4E
U5E
4066
VDD
VSS
Level pot
10Vpp output with 0-10V CV.
Use 200k pot with 0-5V CV.
R25
100k
R26
470k
Modify resistor values for +5V
if 0-5V CV desired.
A100k
RV8
LEVEL_CCW
LEVEL_WIPER
J20
Conn_01x02
SW1
SW_SPDT
SL_MED
SL_HIGH
SLEW
J11
Conn_01x03
Level pot and slew switch connect to Barton PCB
via wires with Molex connectors
Based on Barton 4046 wave shaper, with added CV
Analog Output / Rich Holmes
Sheet: /Panel and power/
File: panelpower.sch
Title: CV Wave Shaper
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Id: 2/2