## INPUT STAGE / ATTENUATION

BAND PASS FILTER
[20Hz - 30KHz]

J1 6.5-LEFT-1 — BP 1uF C1 — 50K R1 — C7 680pF — 50K R7 — C13 0.1uF — OPA1611 INPUT-U1 — C19 0.1uF
J2 6.5-RIGHT-2 — BP 1uF C2 — 50K R2 — C8 680pF — 50K R8 — C14 0.1uF — OPA1611 INPUT-U2 — C20 0.1uF
J3 6.5-LEFT-3 — BP 1uF C3 — 50K R3 — C9 680pF — 50K R9 — C15 0.1uF — OPA1611 INPUT-U3 — C21 0.1uF
J4 6.5-RIGHT-4 — BP 1uF C4 — 50K R4 — C10 680pF — 50K R10 — C16 0.1uF — OPA1611 INPUT-U4 — C22 0.1uF
J5 6.5-LEFT-5 — BP 1uF C5 — 50K R5 — C11 680pF — 50K R11 — C17 0.1uF — OPA1611 INPUT-U5 — C23 0.1uF
J6 6.5-RIGHT-6 — BP 1uF C6 — 50K R6 — C12 680pF — 50K R12 — C18 0.1uF — OPA1611 INPUT-U6 — C24 0.1uF

All op-amps: VCC, VEE, GNDREF

1K RV1 — 50K R13 / 50K R14
1K RV2 — 50K R15 / 50K R16
1K RV3 — 50K R17 / 50K R18

LEFT
RIGHT

## SUMMING AMP

50K R19 — C25 0.1uF — OPA1611 LEFT-U7 — C26 1uF
50K R20 — C27 0.1uF — OPA1611 RIGHT-U8 — C28 0.1uF

## BASIC – EQUALISATION

C29 47nF — RV4 100K — DAUL GANG POT WITH RV4.1 — 22K R21 — 22K R27 — 22K R25 — C30 560pF — 10K R22 — 100K RV5 — 10K R28 — DAUL GANG POT WITH RV5.1 — OPA1611 LEFTEQ-U9 — C33 0.1uF — C34 0.1uF

C31 47nF — RV4.1 100K — 22K R23 — 22K R29 — 22K R26 — C32 560pF — 10K R24 — 100K RV5.1 — 10K R30 — OPA1611 RIGHTEQ-U10 — C35 0.1uF — C36 0.1uF

## OUTPUT STAGE

OUTPUT FILTER / PHANTOM POWER PROTECTION

U11 DRV134 — C39 1uF — C40 1uF — C43 10uF — C44 10uF — BP 50uF C47 — BP 50uF C48 — 1K R33 — 1K R34 — XLR1 XLR-LEFT

U12 DRV134 — C41 1uF — C42 1uF — C45 10uF — C46 10uF — BP 50uF C51 — BP 50uF C52 — 1K R35 — 1K R36 — XLR2 XLR-RIGHT

## POWER SUPPLY

FROM +24VDC
SWICTH MODE PSU
(WALL WART)

+24V — 24V DC J7 — GND — C37 100uF — C38 100uF — 10K R31 — 10K R32 — BUF634 U3 — C49 C — C50 C — VCC — GNDREF — VEE

DESCRIPTION-U?
CONNECTOR-DESCRIPTION-####

FOR REVIEW
DRW - JOSHUA BLISS
**JOSHUA BLISS - SPIDER TOYS**

Sheet: /
File: Keyboard Mixer.sch

**Title: Keyboard Mixer**

| Size: A3 | Date: 2018-12-22 | **Rev: C** |
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| KiCad E.D.A. kicad 4.0.7 | | Id: 1/1 |