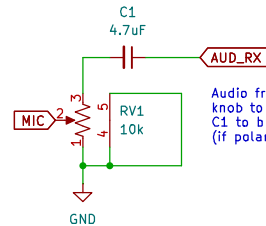


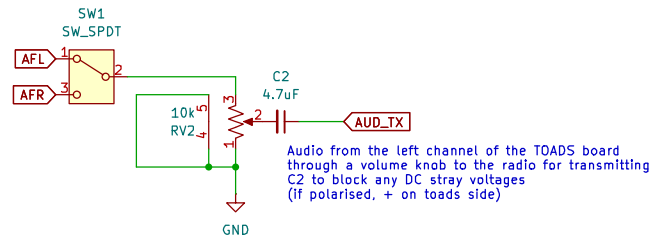
COS = Carrier Operated Squelch Diode is to ensure the TOADS board recieves squelch from radio but cannot feed information to the squelch pin

Note: It's highly recommended that this be active high logic signalling.

Active LOW PTT. Signal on GPI03 triggers Q1 and pulls the PTT line low.



Audio from radio through a volume knob to the MIC pin on the TOADS board C1 to block any DC stray voltages (if polarised, + on radio side)



Audio from the left channel of the TOADS board through a volume knob to the radio for transmitting C2 to block any DC stray voltages (if polarised, + on toads side)

V1.1  
Release 2025-02-17  
DONE: LED on PTT  
ABANDONED: Switch COS to active high/low radios  
DONE: Holes in PCB to line up with TOADS board  
DONE: LED for power indication  
DONE: Switch to choose audio from AFL or AFR  
DONE: LED for radio PTT feedback  
DONE: TX Volume pot the wrong way (clockwise lowers output)  
DONE: Add LED for COS (GPI0 4)  
DONE: Transistor pads in wrong place on pcb!!!!!!!  
DONE: Add msw logo

V1.0  
Release 2025-09-17

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Sheet: /  
File: toads\_breakout.kicad\_sch

**Title: TOADS Basic Radio Interface**

Size: A4 Date: 2026-02-17  
KiCad E.D.A. 9.0.6

H1  
MountingHole  
H2  
MountingHole  
H3  
MountingHole  
H4  
MountingHole

Rev: 1.1  
Id: 1/1