This design is divided into 2 boards:
– The control board holds pots, jacks, LEDs, etc
– The 'brain' board contains the microcontroller,
  the AS3340 oscillator circuit, and the power connector.
The brain board atttaches perpendicular to the control board
with right angle header pins.

ControlBoard

File: ControlBoard.kicad_sch

BrainBoard

File: BrainBoard.kicad_sch

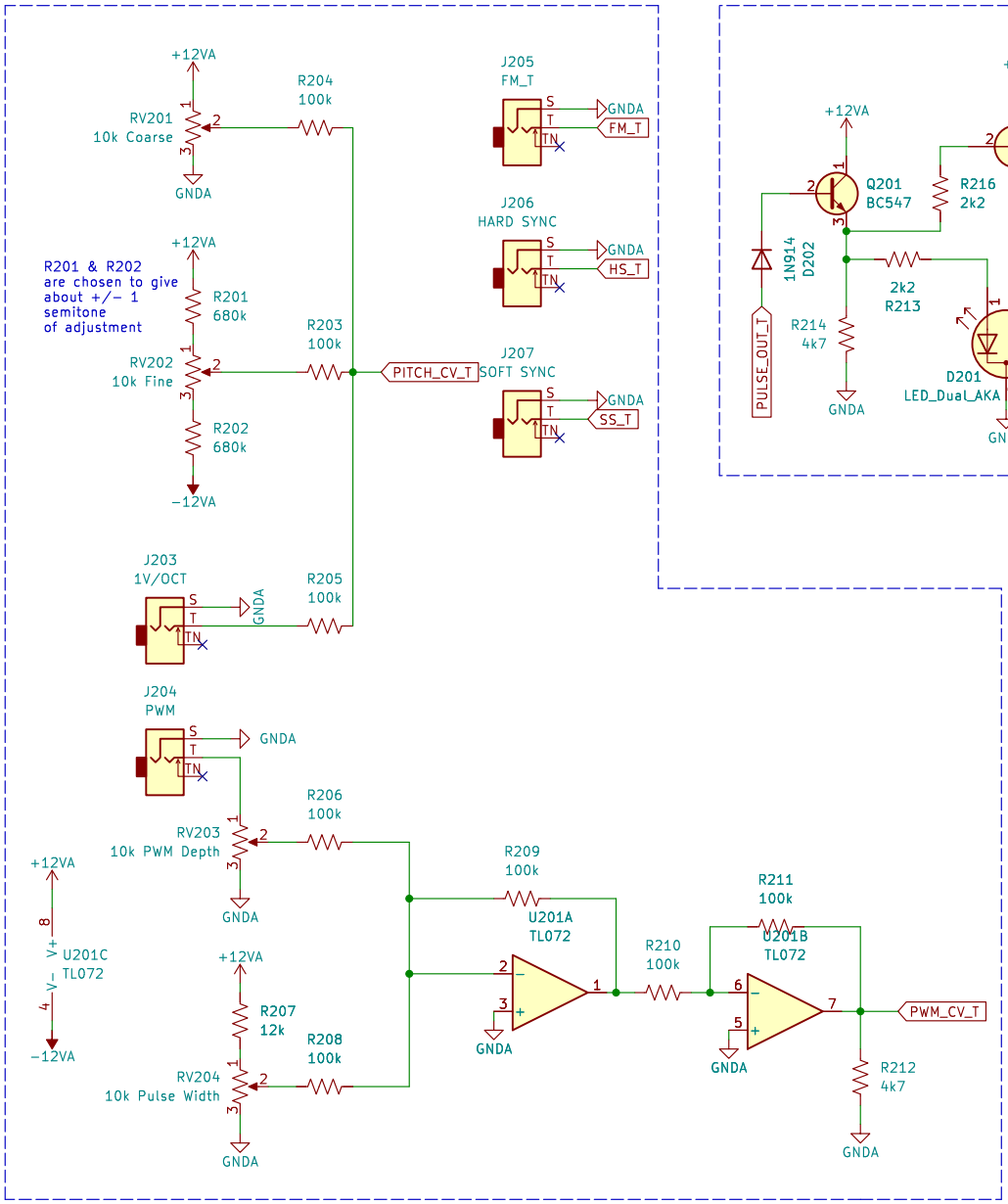
Hayden Setlik

Sheet: /
File: TunerVCO.kicad_sch

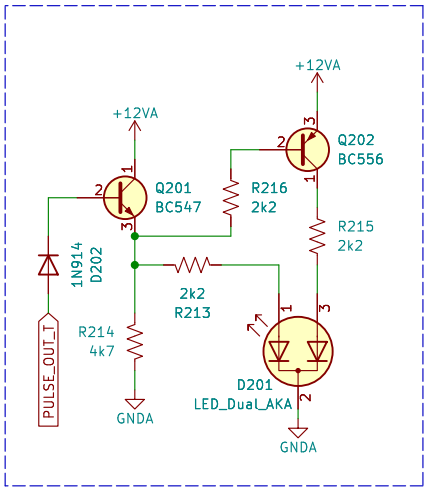
Title: ESP–3340 Tuner VCO

Size: A4	Date: 2024–02–15	**Rev: 1**
KiCad E.D.A. kicad 7.0.7		Id: 1/3

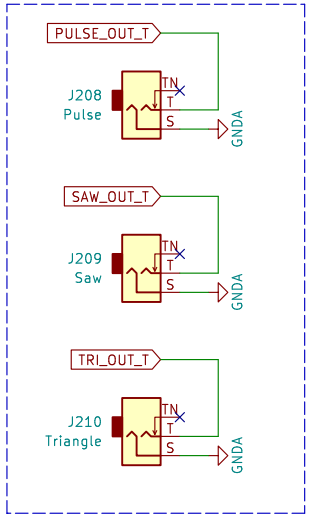
Input Controls



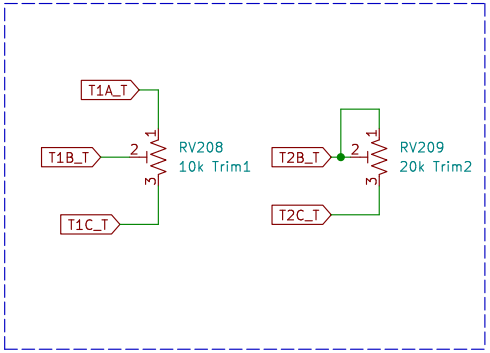
Pulse Width LED



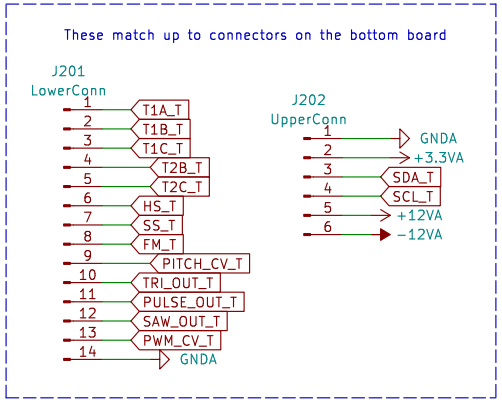
Output Jacks



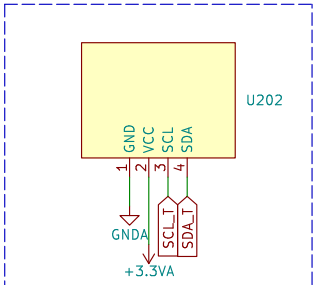
Tracking Trimmers



Header Pins



OLED Display



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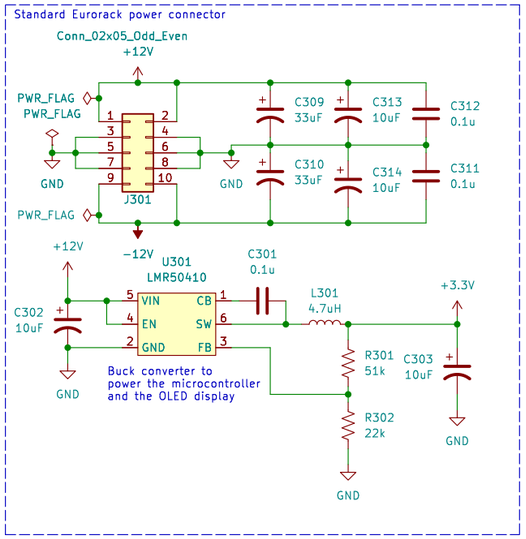
Sheet: /ControlBoard/

File: ControlBoard.kicad_sch

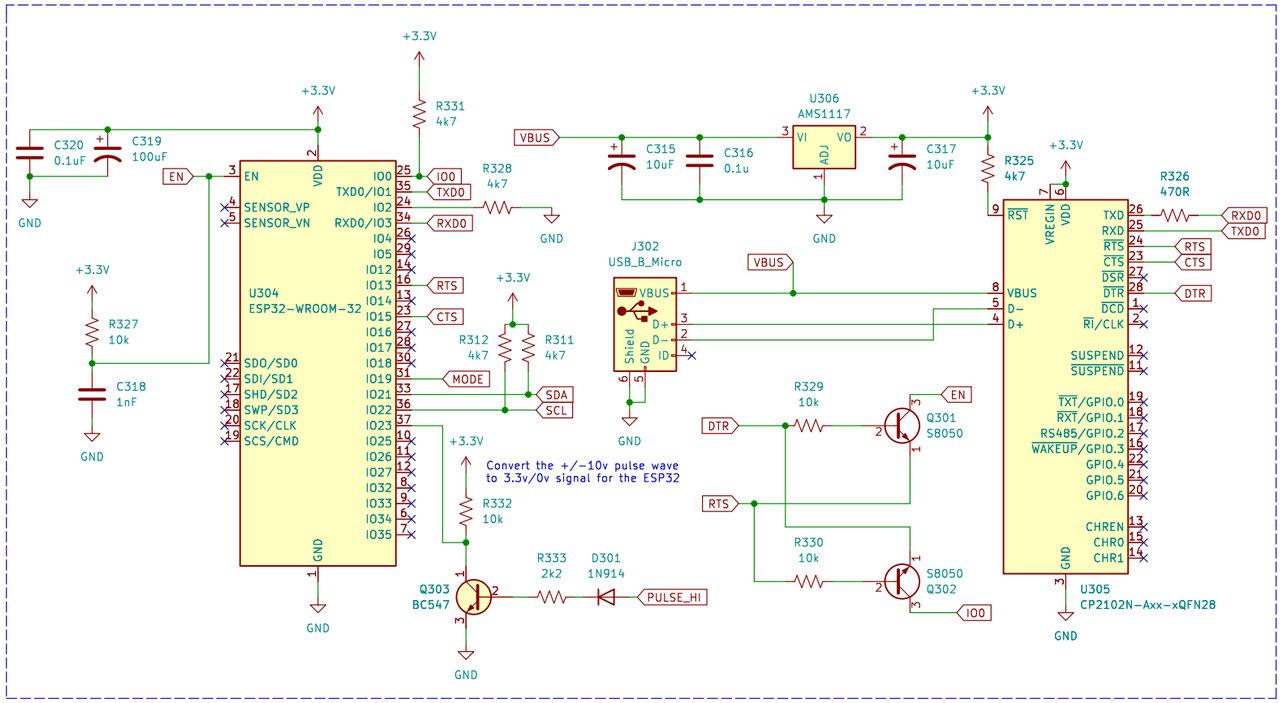
Title: ESP-3340 Tuner VCO

Size: A4	Date: 2024-02-15	**Rev: 1**
KiCad E.D.A. kicad 7.0.7		Id: 2/3

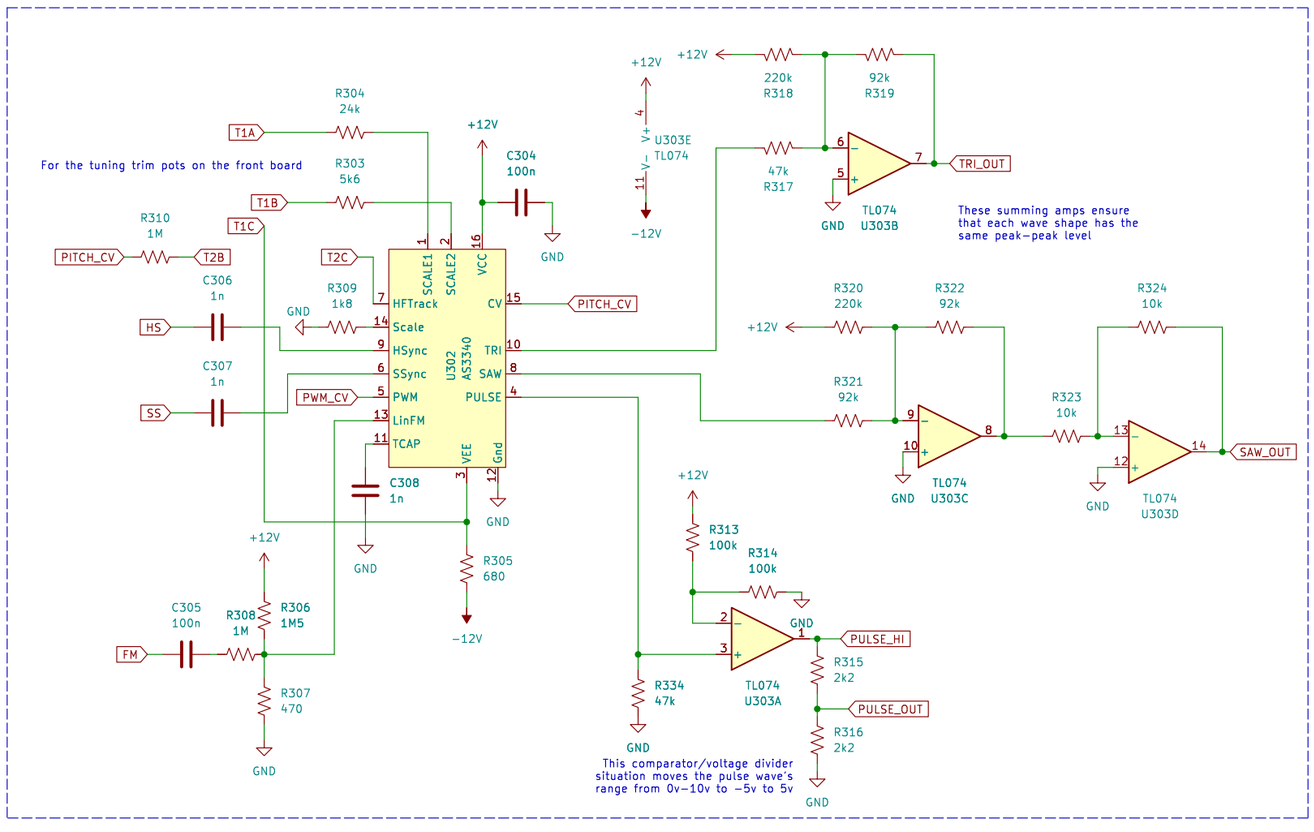
Power Connector and Buck Converter



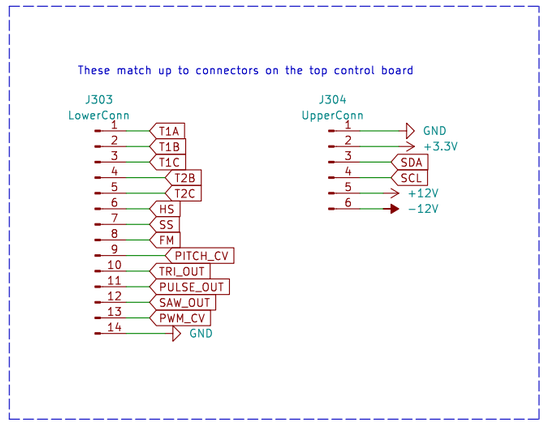
Microcontroller and USB converter



VCO Core and Level Shifters



Header pins



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Sheet: /BrainBoard/	
File: BrainBoard.kicad_sch	
Title: ESP−3340 Tuner VCO	
Size: A3	Date: 2024−02−15
KiCad E.D.A. kicad 7.0.7	Rev: 1
	Id: 3/3