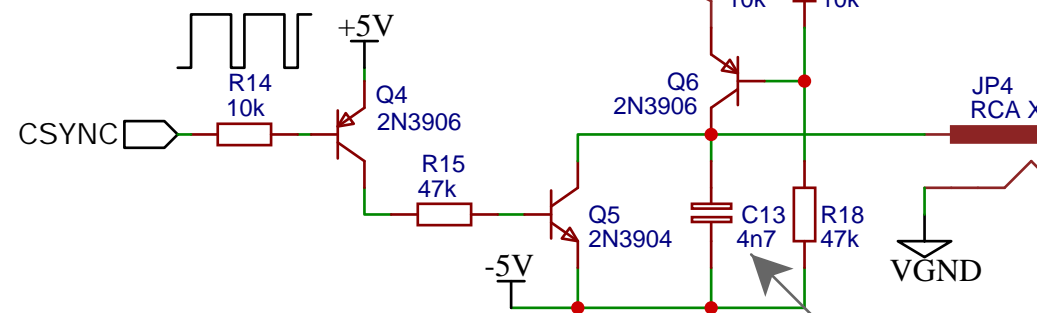
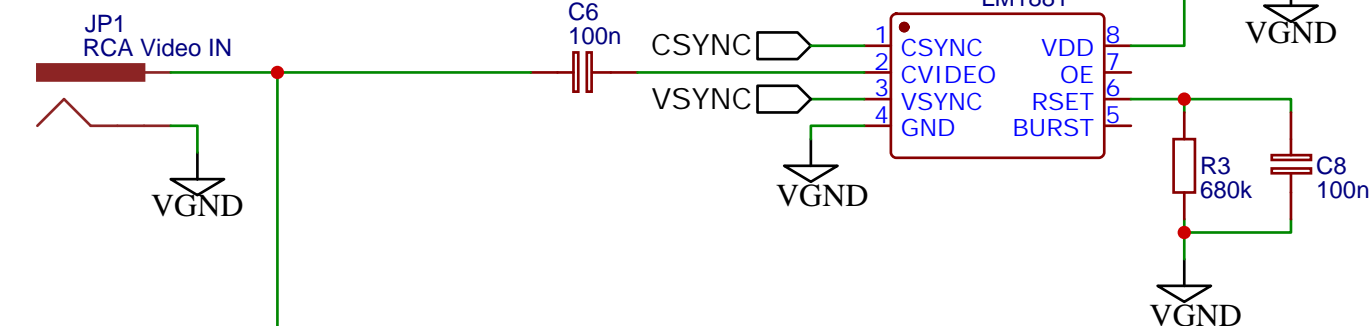


sync separation

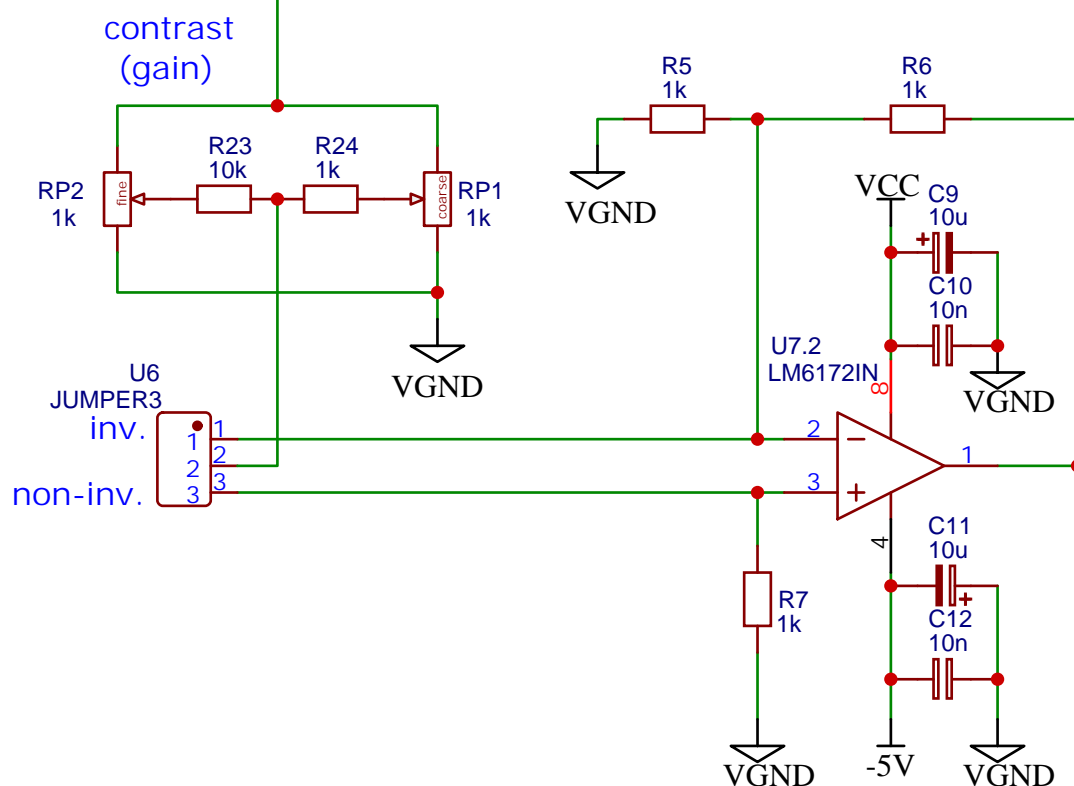


horizontal ramp (X)



Op-Amp 1

- amplify with a gain of ~0..1 (gain potentiometers)
- 3-pin-Jumper for switching between inverting and non-inverting



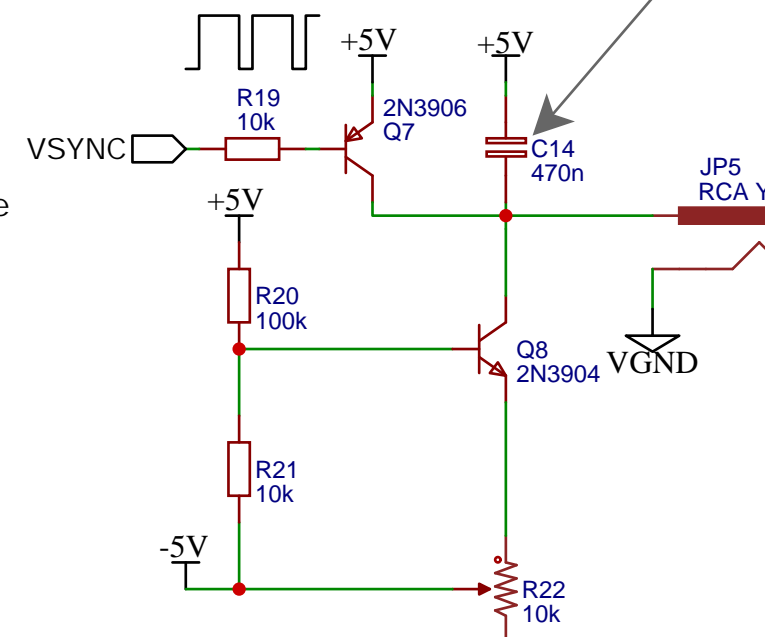
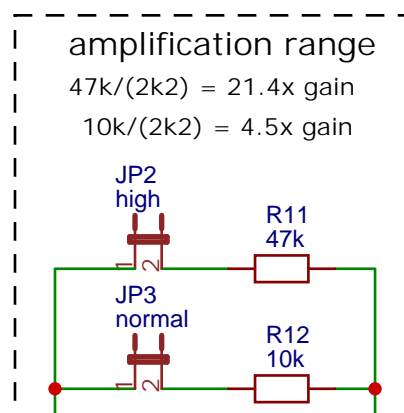
Op-Amp 2

- inverting amplification with a selectable gain of 4.5 or 21.4
- offset-control with potentiometer

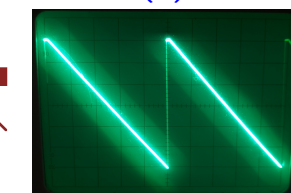
amplification range

$$47k/(2k2) = 21.4x \text{ gain}$$

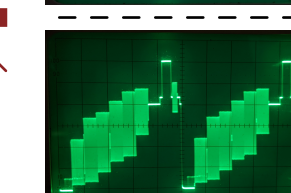
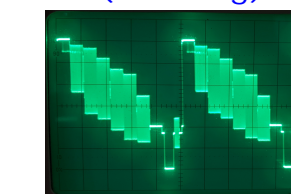
$$10k/(2k2) = 4.5x \text{ gain}$$



vertical ramp (Y)



amplified video (blanking)



TITLE: Signal conversion		REV: 1.1
Company:		Sheet: 2/2
Date: 2025-02-25		Drawn By: Cirithor