

## Aries AR-332 DUAL VOLTAGE CONTROLLED OSCILLATOR MODULE

The Aries AR-332 is a dual VCO module. Each oscillator in the module functions independently of the other and each provides simultaneous waveforms outputs of ramp and variable pulse. The width of the Pulse is controlled manually from a pot or voltage-controlled from the pulse width modulation input. Each VCO has two exponential input and one has an attenuator. Each VCO also has a reset sync input and can produce many and varied waveforms with unusual harmonic content.

One AR-332 dual VCO is less expensive and uses half the module space of two AR-338 VCOs.

### SPECIFICATIONS

Output Amplitude:

- Pulse: 0V to +10V
- Ramp: -5V to +5V
- Pulse Width Modulation Sensitivity: 10% per control Volt

Frequency Range, Manual Control:

- Audio, Coarse Tune: 16Hz to 16kHz
- Low, Coarse Tune: 0.1Hz to 200Hz

Voltage Control Range:

- Audio: 1Hz to 30kHz
- Low: 0.005Hz to 2kHz

Frequency Modulation Sensitivity -

- Exponential input 1: 0.75 Volt/Octave (*uncalibrated*)
- Exponential input 2: 1 Volt/Octave (*calibrated*)

Power Consumption:

- 45mA at +15V (*not verified*)
- 36mA at -15V (*not verified*)

# DUAL VCO

FREQUENCY

256 1K x1  
64 4K  
16 16K x0.3 x1.6  
COARSE FINE  
B — C — A

5 2 8  
0 10 0% 100%  
CONTROL 1 PULSE WIDTH

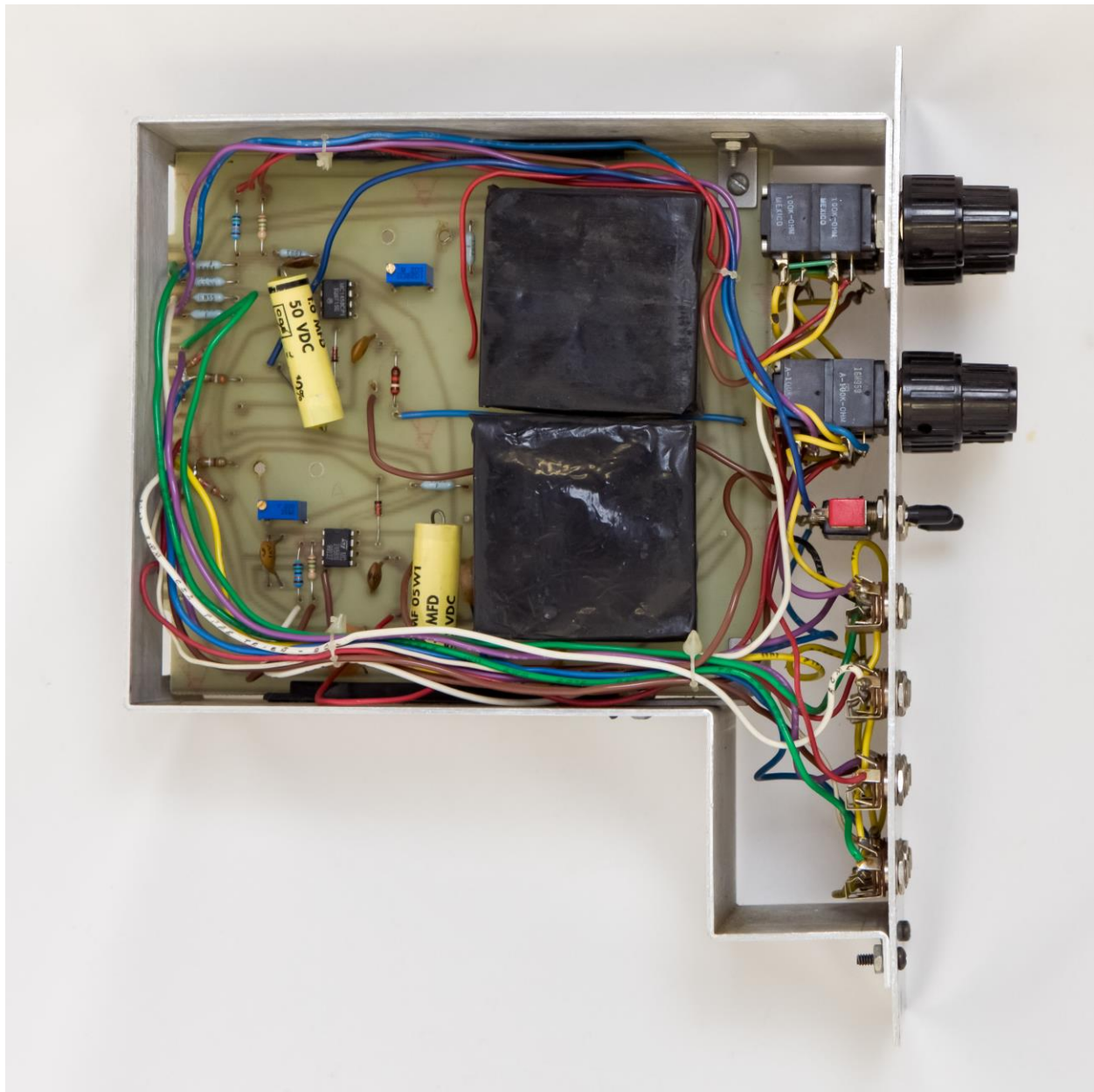
LOW HIGH LOW HIGH  
B — RANGE — A

1 SYNC   
VCO A  
2 PWM 

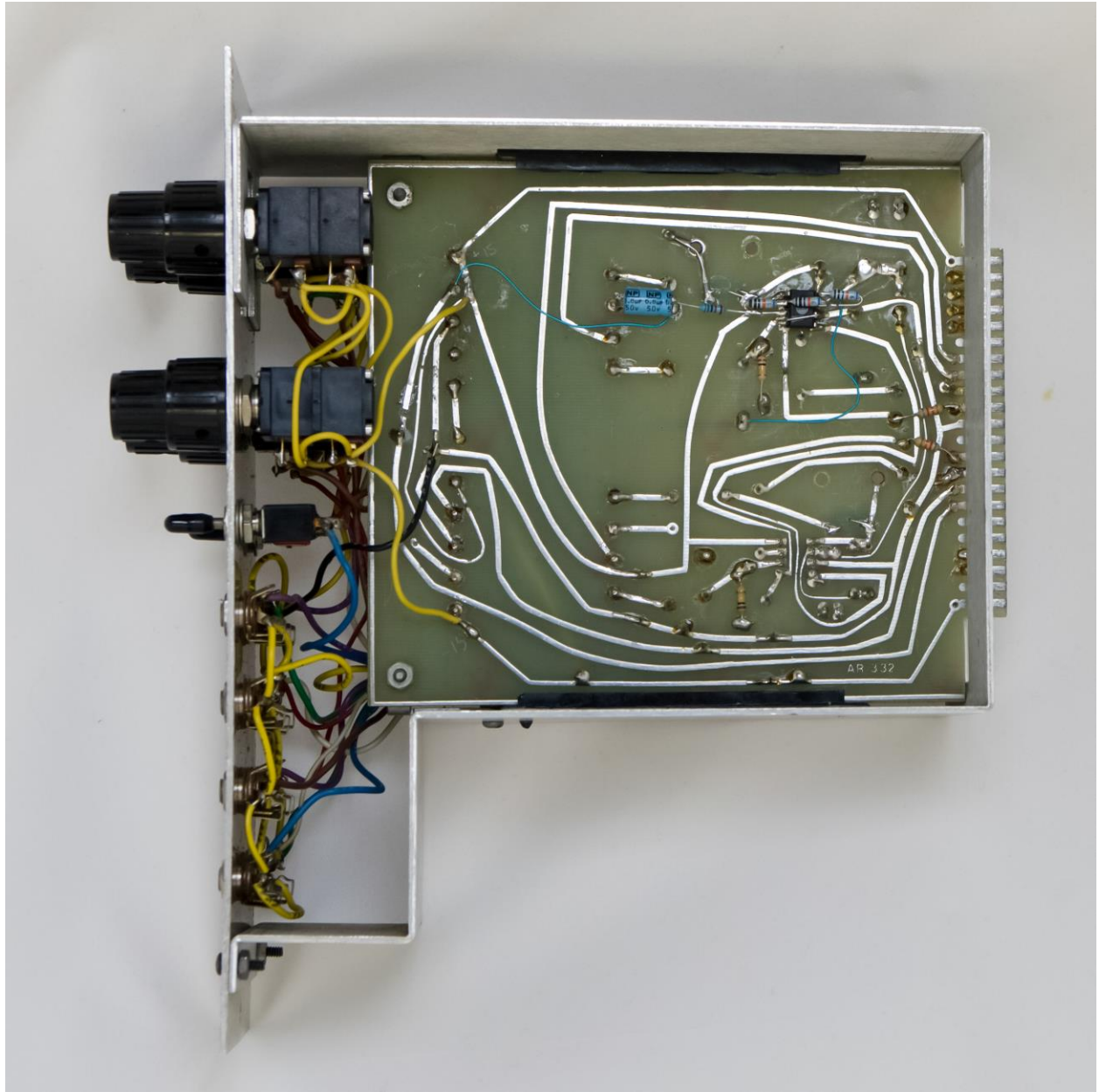
1 SYNC   
VCO B  
2 PWM 

CONTROLS OUTPUTS

AR-332



Both 1 turn trimmers have been replaced with 20 turn trimmers



The additional circuitry on the PCB rear is a gain & level shift circuit for VCO B as the potted module is not functioning to specifications

