

ARIES AR-328 SPRING REVERB & OUTPUT MODULE

The Aries AR-312 module is the standard Aries Music envelope generator. It is engineered to provide The AR-328 incorporates all of the functions of the AR-326 Output and power, and then adds several features to produce a module of significantly increased musical prowess.

Each of the two input signals which can be accommodated is split, fed to an attenuator for level control, then to a pan pot for placement of the dry non-reverberated signal anywhere in the stereo field, and fed to the reverb network. A pot at the beginning of the reverb network allows continuous panning from Input 1 only to the reverberation device to Input 2 only. A second dual concentric pot gives independent control of the reverb level on each output channel.

Two independent CASCADE REVERBERATION DEVICES made by O.C. Electronics give more spaciousness and realism than the signal delay devices found on many synthesizers. These reverbs are spring-type delay lines, but sound significantly better than other springs we've heard.

SPECIFICATIONS:

- Input Impedance: 50K nominal
- Output Impedance: 230 ohms minimum
- Input Signal Level: 20v. p.-p. (for optimum s/n)
- Signal-to-Noise Ratio: better than +/-60db

CONTROLS:

- 2 Input Attenuators (1 ea. channel)
- 2 pan pots (1 ea. channel)
- 1 Reverb source pan pot
- 1 Dual concentric Reverb Level pot

POWER CONSUMPTION:

- 39mA at +15V
- 27mA at -15V
- 27mA at -15V

STEREO REVERB&OUTPUT

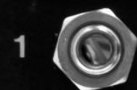
1

0 LEVEL 10

L ◀ PAN ▶ R

2

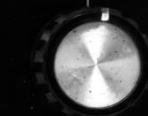
INPUTS



LEVEL

REVERB

SOURCE



PATCH



PATCH

1

2

POWER

ON

+10V

-10V

OUTPUTS



PHONES

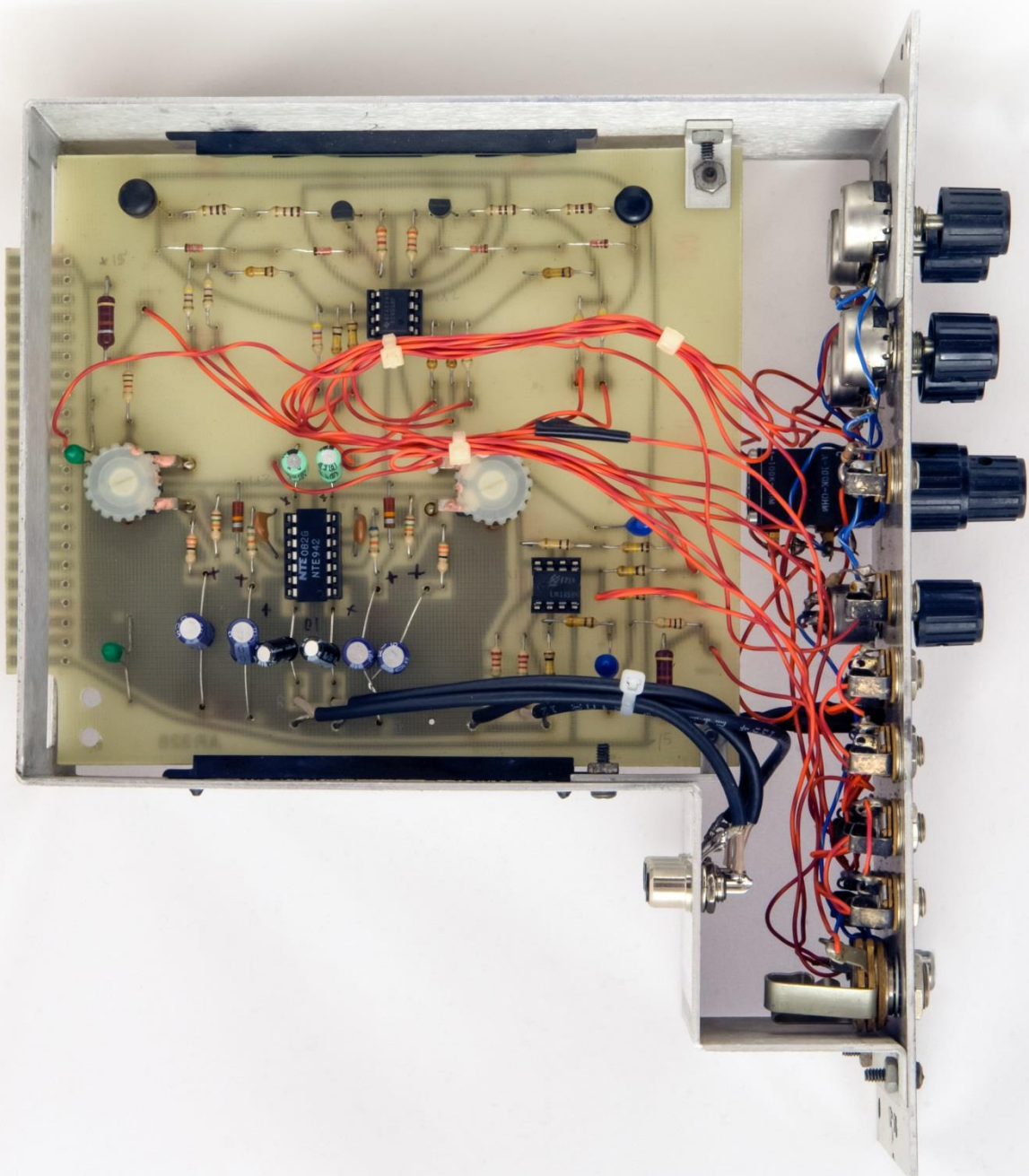


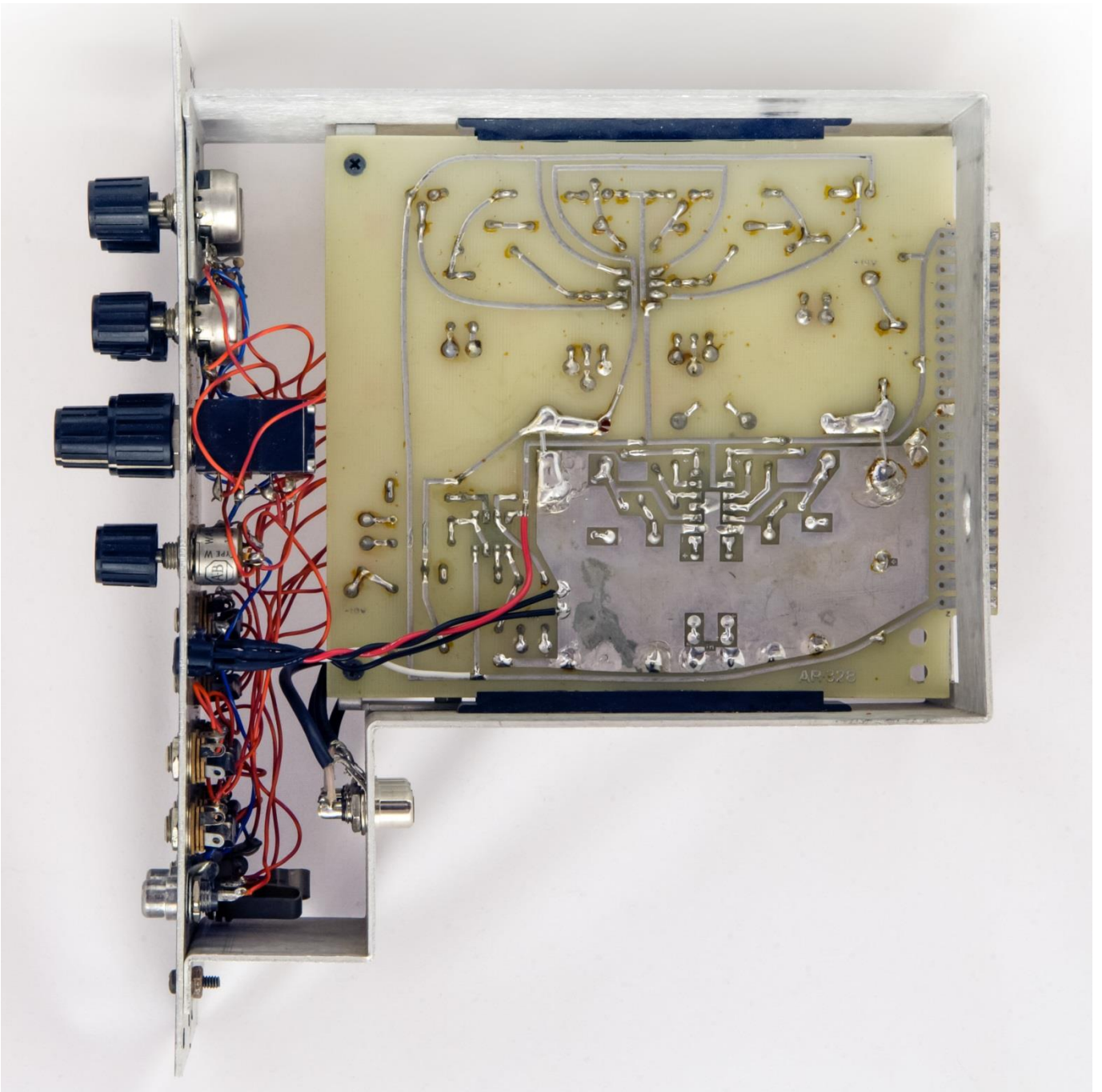
LEFT

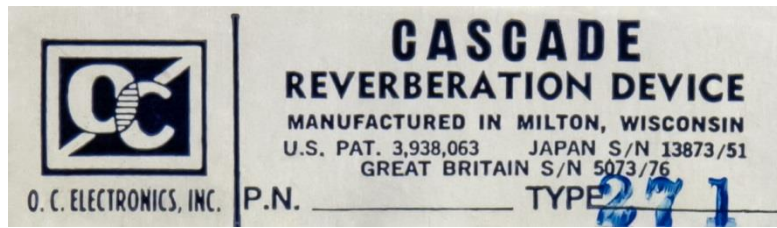


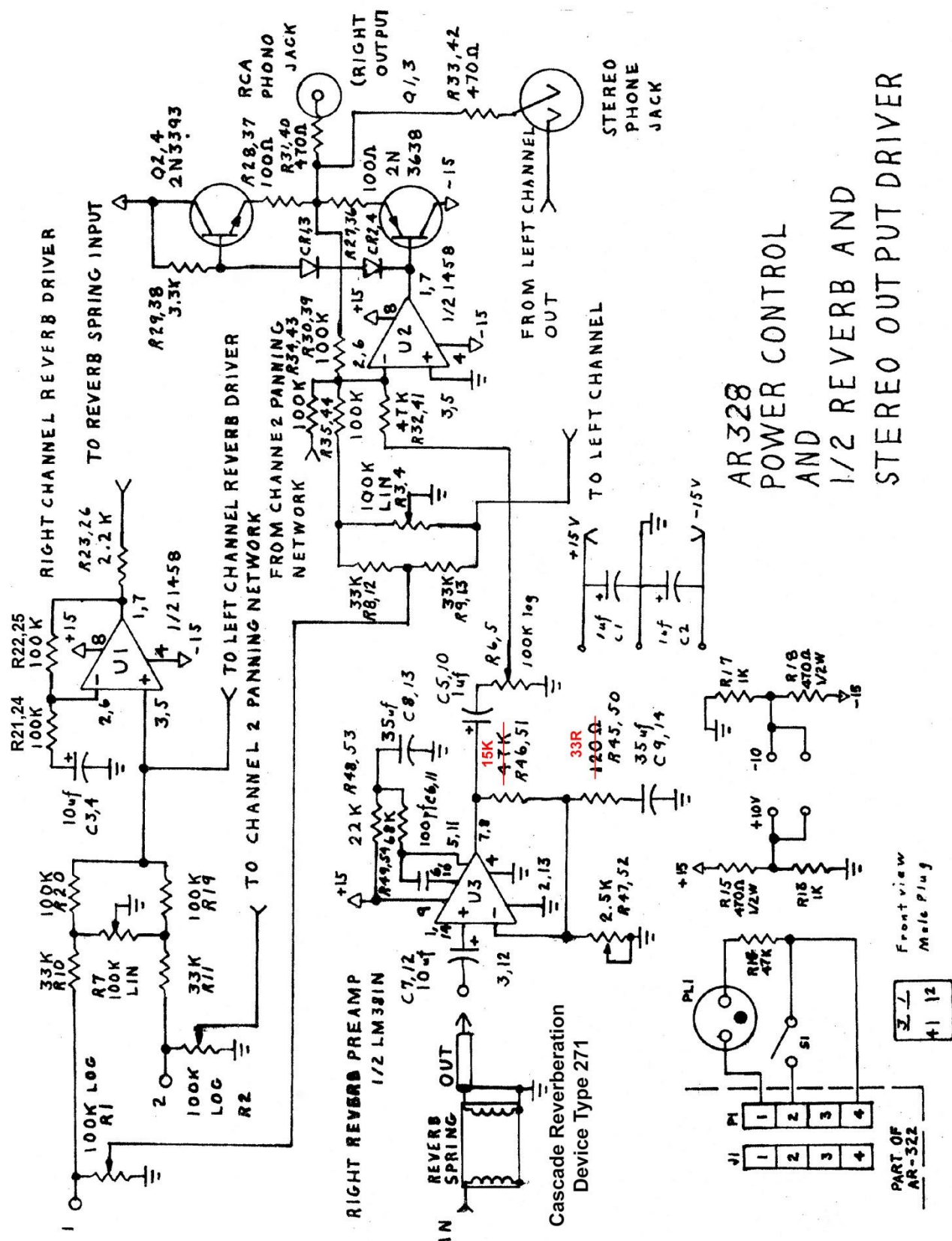
RIGHT

AR-328









The LM381 is used in a single ended configuration so the impedance of the feedback point is ~10K. For bias stability the feedback resistor impedance needs to be about 1/5 or ~2K. The feedback circuit consists of R46 (R51) and R47 (R52). R47 (R52) should be $(V_{be}/(5 \times I_{fb}))$ or 1K3 which is about in the center of the trimmer range. R46 (R51) should be $((V_{cc}/1.3) - 1) \times 1K3$ or about 13K7, not 47K. The AC gain is based on the ratio of R46 and R45 so change R45 (R50) from 120R to 33R.