M2 V

Schematic

BIAMP®

SYSTEMS

10074 SW Arctic Drive Beaverton, OR 97005 503-641-7287

M2V CALIBRATION PROCEDURE

EQUIPMENT REQUIRED

DUAL TRACE OSCILLOSCOPE 15MHZ

dB-AC VOLTMETER

SWEEP-SINE WAVE GENERATOR

SIGNAL INPUT 0 dB SWEEP INTO UNBALANCED INPUT

SIGNAL OUTPUTS OSCILLOSCOPE CHAN A INPUT — LF OUTPUT

" B " B INPUT — HF OUTPUT

dB METER — HF OUTPUT

1. SET CONTROLS

LF FILTER — 100 HZ

LF LEVEL — MAX

HF LEVEL — MAX

HF PHASE — 0°

RANGE SWITCH — X1

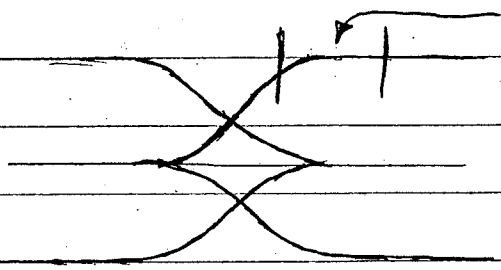
FREQ CONTROL 500 MARK

MECHANICAL CENTER 5K HF CAL AND 1 MEG LF CAL TRIM POTS (LOCATED ON CIRCUIT BOARD)

ADJUST SLOPE CONTROL (LOCATED ON CIRCUIT BOARD) FOR UNIFORM FLATNESS OF FRONT PORTION OF HF WAVEFORM.

EXAMPLE

LF WAVE FORM



THIS PORTION

HF WAVEFORM

CHANGE FREQ CONTROL TO 100 HZ MARK

CHANGE SINGNAL INPUT TO 10 KHZ SINE WAVE

ADJUST OUT PUT FOR 0 dB

DO NOT TOUCH FRONT PANEL CONTROLS (EXCLUDING FREQ CONTROL) FOR THE REMAINDER OF CALIBRATION PROCEDURE

SIGNAL INPUT 1KHZ SINE WAVE

ADJUST 5K TRIM POT (1KHZ CAL) FOR -3dB down

SIGNAL INPUT 100HZ SINE WAVE

TURN FREQ CONTROL FULL CCW

ADJUST 1MEG TRIM POT (100HZ CAL) FOR -3dB down

ADJUST FREQ POT FOR MECHANICAL CENTERING

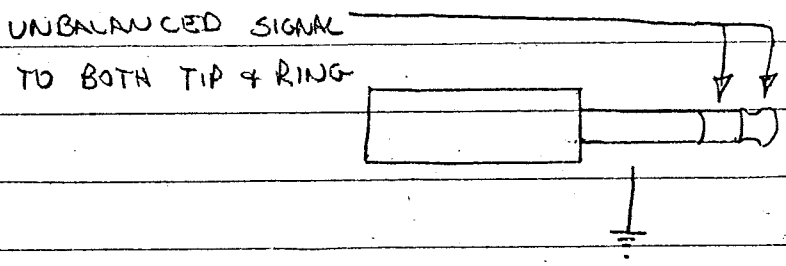
CHECK FREQ POT CALIBRATION AT 500 HZ POINT (-3dB dow

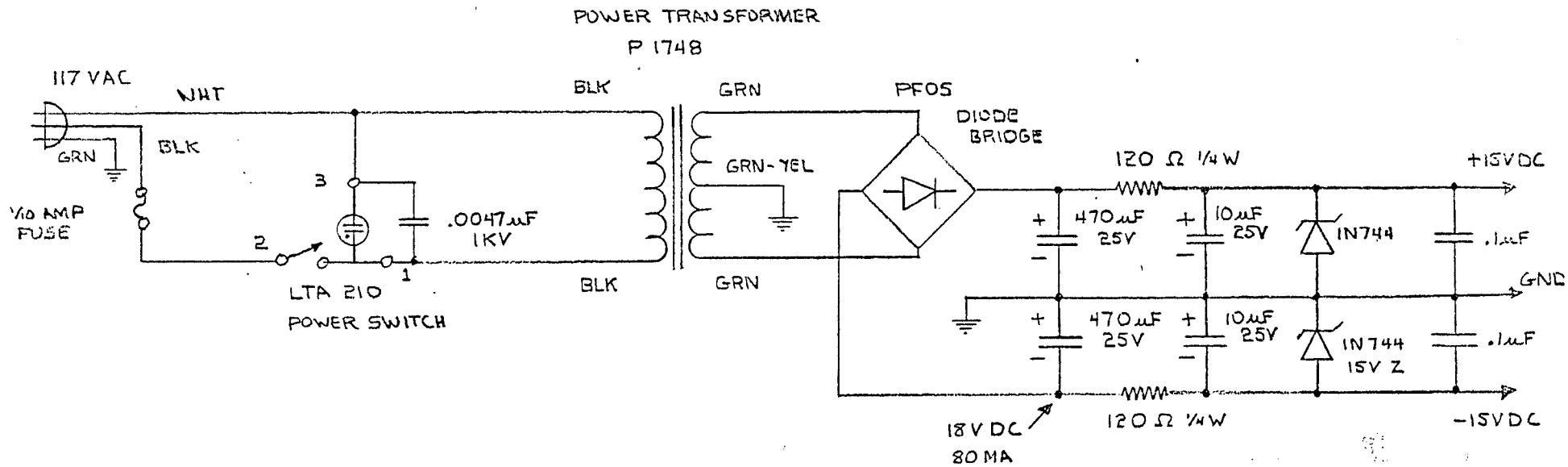
5% TOL ± 25 HZ 475 - 525 HZ

SET COMMON MODE REJECTION (CMR)

SIGNAL INPUT 1KHZ INTO BALANCED INPUT (SEE EXAMPLE

ADJUST 5K CMR TRIM POT FOR MINIMUM HF OUTPUT





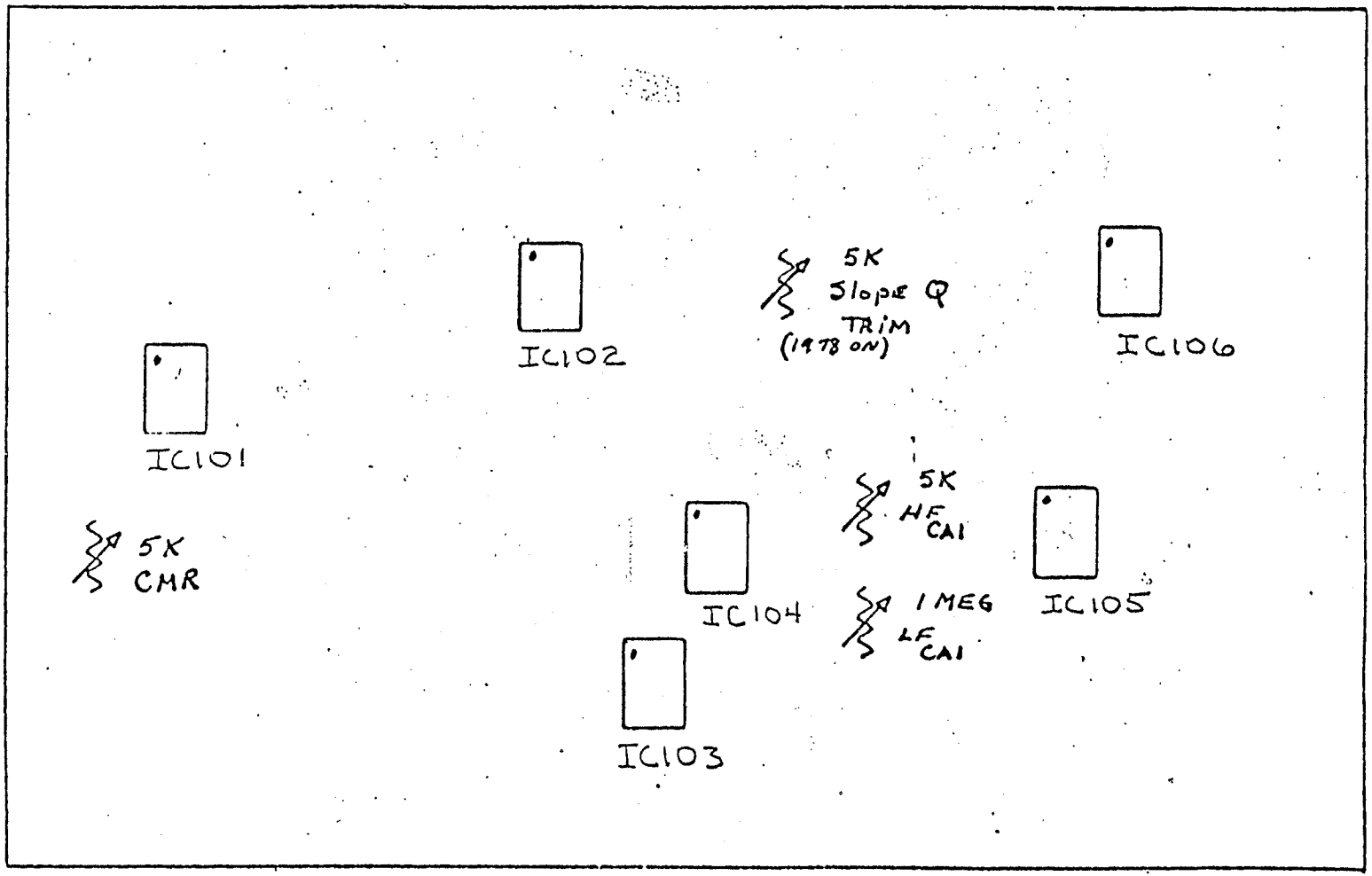
M2V - B
ELECTRONIC CROSSOVER
POWER SUPPLY

APRIL 25 1979

DRAWN BY J DUNCAN

ECO 022-82

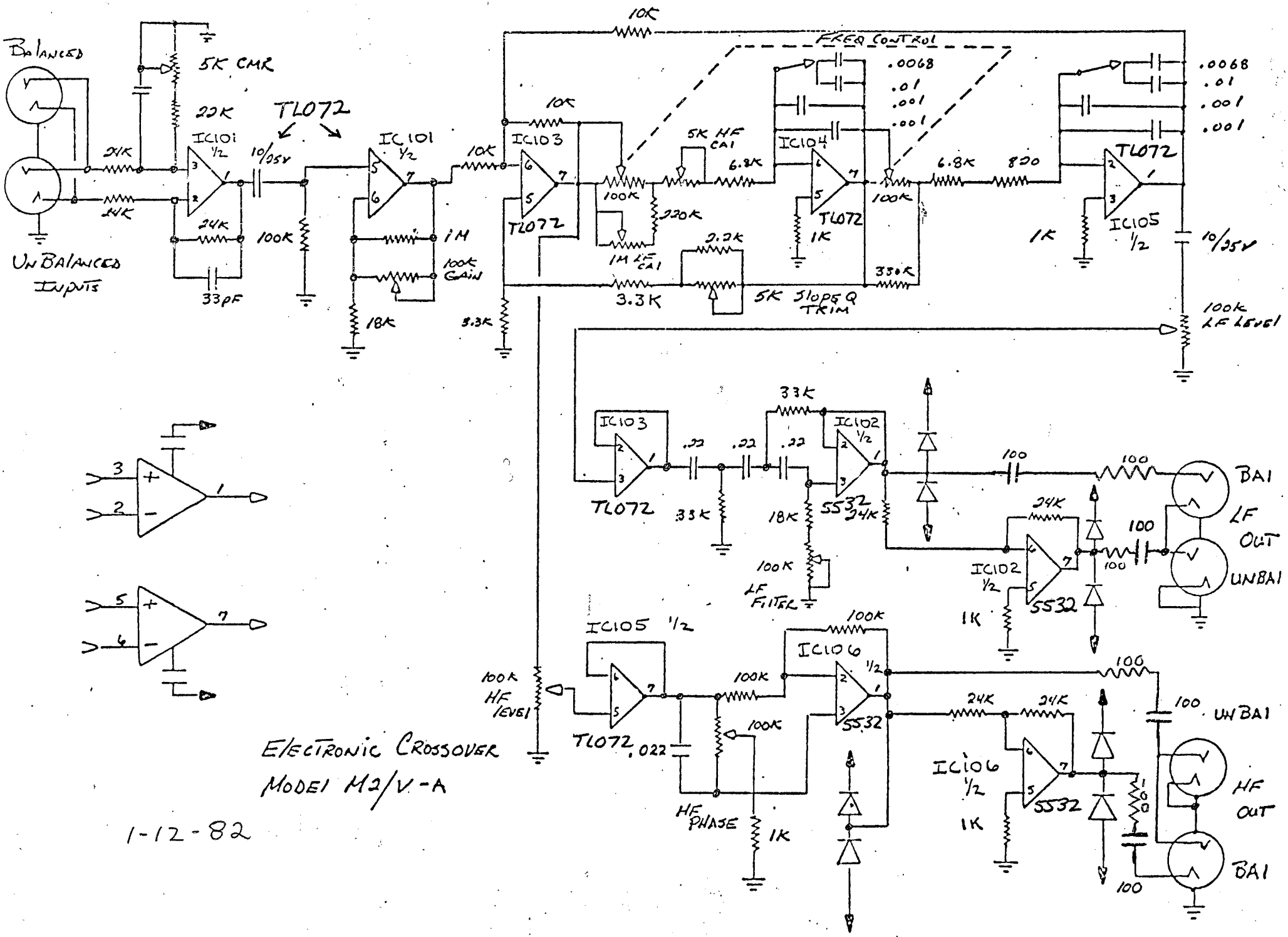
M2/V-A IC LOCATION CHART



OPAMP IC PLACEMENT

REFERENCE TO M2/V DRAWING; -A

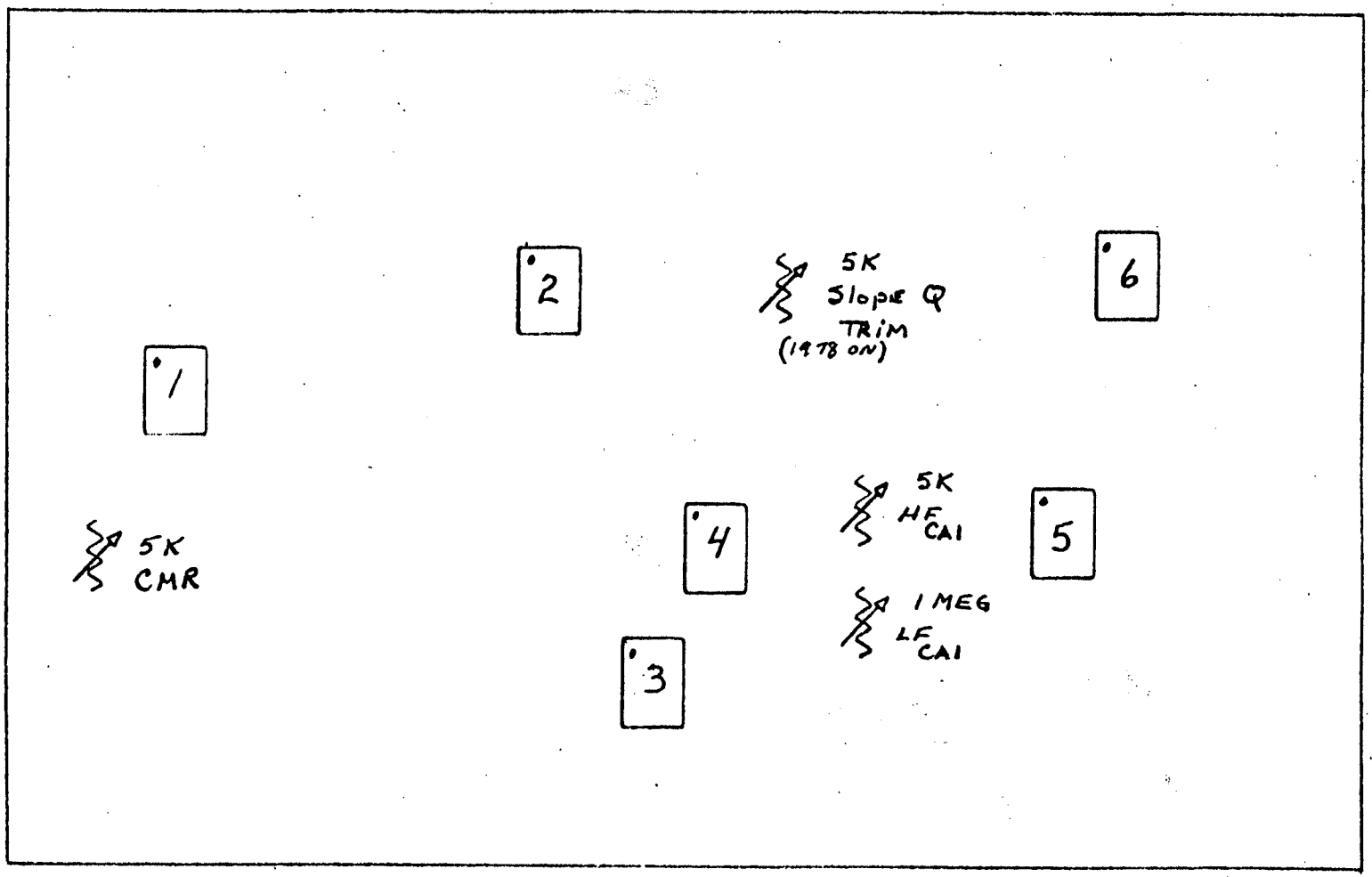
IC 101 = TL072
IC 102 = NE 5532
IC 103 = TL072
IC 104 = TL072
IC 105 = TL072
IC 106 = NE 5532



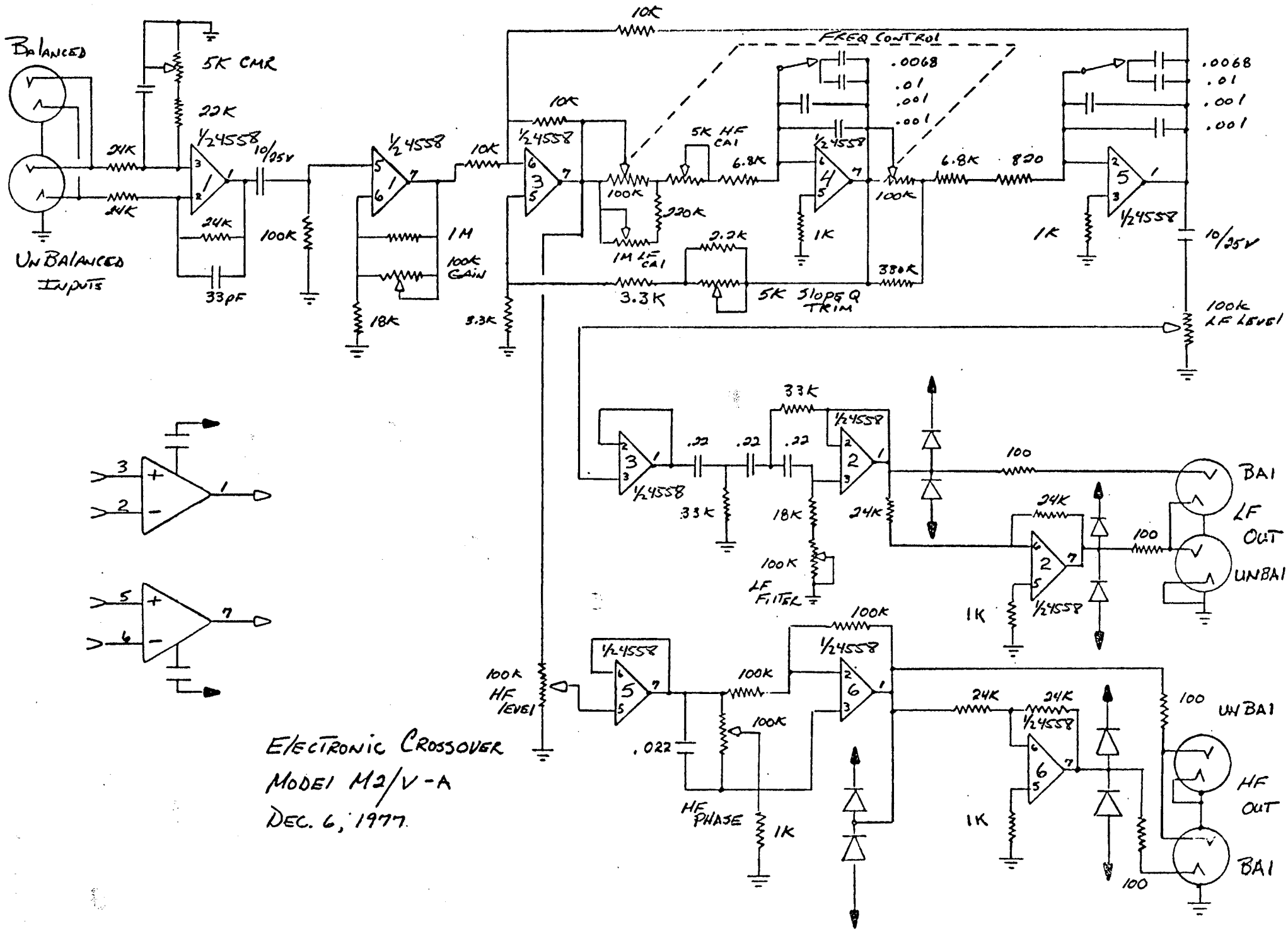
ELECTRONIC CROSSOVER
MODEL M2/V-A

1-12-82

M2/V-A IC LOCATION CHART



REFERENCE TO M2/V DRAWING; DEC 6, 1977
-A



ELECTRONIC CROSSOVER
MODEL M2/V-A
DEC. 6, 1977