

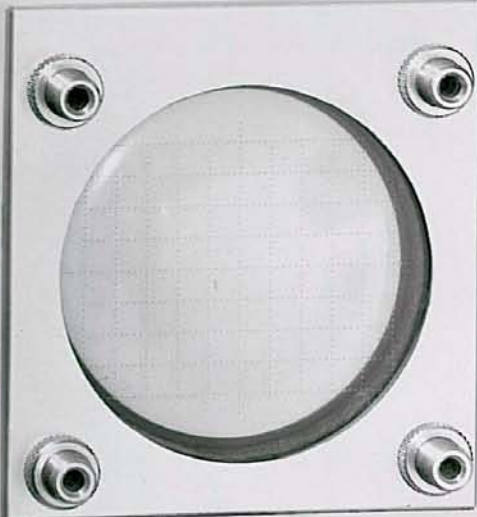


PHOTO-MANUAL

Manufacturers of

**CATHODE - RAY OSCILLOSCOPES
AND VIDEO TEST INSTRUMENTS**

TYPE 315 D CATHODE-RAY OSCILLOSCOPE



MULTIPLIER
10 5 2
2-20

INPUT
1 MEG. 35 MMFD.
600 V. MAX.

VERTICAL AMPLIFIER

AMPLITUDE VOLTS/DIVISION

AC 10 1 .1 .01 10 1 DC

FOCUS **INTENSITY** **SCALE ILLUM.**

POSITION
HORIZ. VERT.

TIME BASE

MULTIPLIER
5 2 1
1-10

5X MAGNIFIER RANGE TIME/DIVISION
MILLISEC. 10 1 100 10 MICROSEC. 1 SEC.

CALIBRATOR VOLTS, PEAK TO PEAK
OFF .1 1 10 100

STABILITY TRIGGER SELECTOR
-INT. +INT. -EXT. +EXT. SLOW RISE FAST RISE
+EXT. -EXT. -LINE -INT. +LINE +INT.

TRIGGER AMPLITUDE DISCRIMINATOR
-10 0 +10
-20 +20
-30 +30
-40 +40
-50 +50
+GATE SAWTOOTH

POWER ON **CAL. OUT**

GND.

EXT. TRIGGER
SERIAL AC DC

TE. **INC., PORTLAND, OREGON, U.S.A.**





THE 250 CONTROL UNIT

DANGER
HIGH VOLTAGE

DANGER
HIGH VOLTAGE

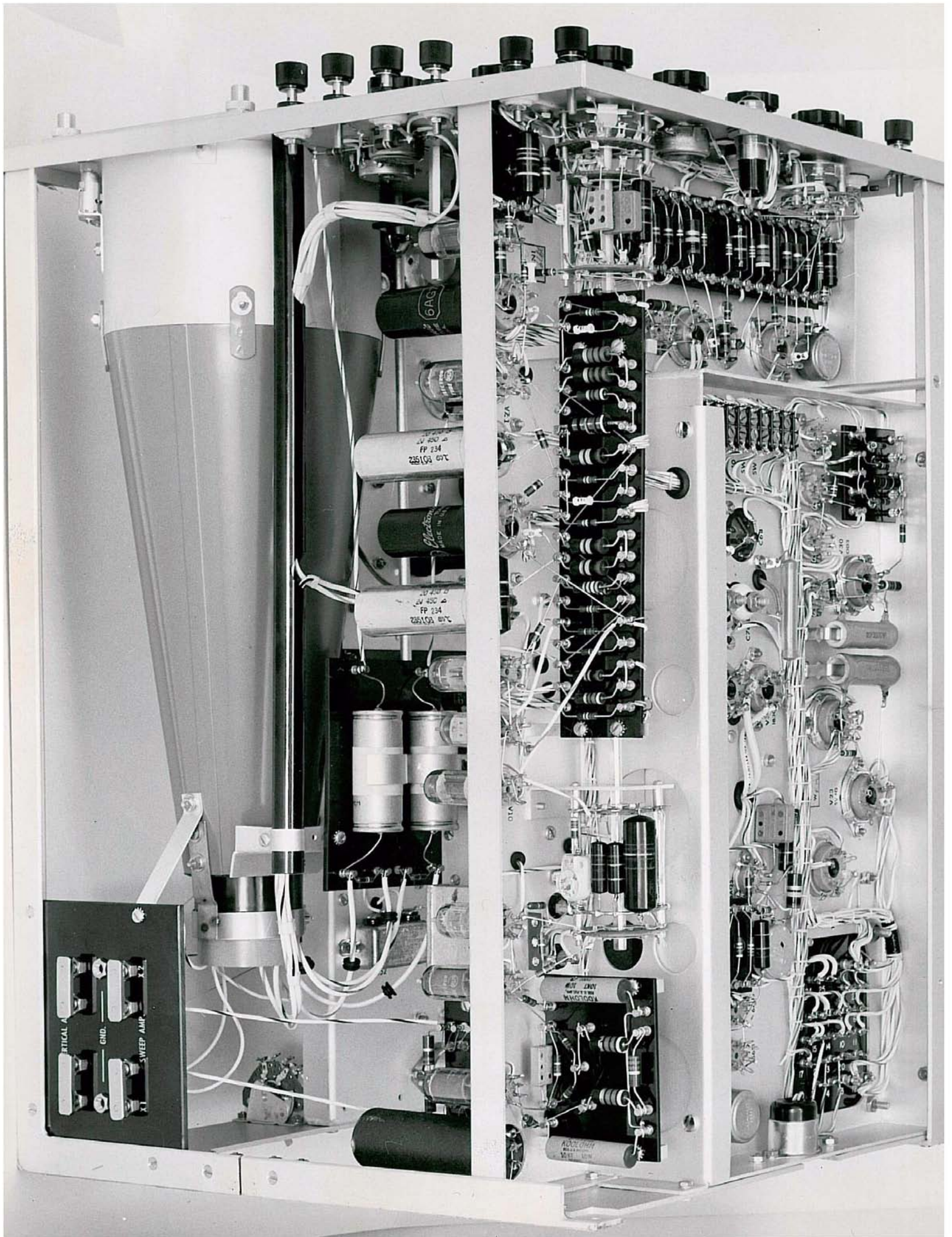
H. V. ADJ.
V803 6AQ5
V802 12B4
V801 12AU7

DANGER
HIGH VOLTAGE

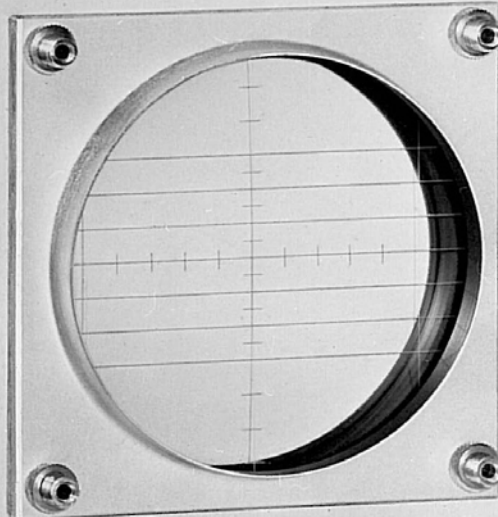
V805 5642

V804 5642

UNDER SHIELD



TYPE 512 CATHODE-RAY OSCILLOSCOPE



VERT. DEFL. SENS. VOLTS/CM
1.5 5 15 0.05 0.015 0.005

VERT. AMPL. ATTEN

VERT. POSITION

PRE-AMP BALANCE

AC DC

SCALE ILLUM.

VERTICAL INPUT +CAL -CAL A-B

1 MEG. 41 MMF 400 V. MAX. INPUT A

GND.

INPUT B

CAL. RANGE PEAK TO PEAK VOLTS
15 5 1.5 0.05 0.015 0.005

CAL. VOLTAGE

CAL. OUTPUT

CRT CATHODE

FOCUS

INTENSITY

GND.

ASTIGMATISM

BLANKING

SWEEP OUTPUT

DELAYED TRIGGER AND SWEEP MAGNIFIER POSITION

MAGNIFIER OUT IN

SWEEP TIME/CM
1.0 1.2 1.4 1.6 1.8 2.0 2.2 2.4 2.6 2.8 3.0

EXT. SWEEP ATTEN.

HOR. POSITION

EXT. SWEEP INPUT

+GATE

SWEEP RANGE TIME, CM MILLISEC.
30 10 3 1 0.3 0.1 0.03 0.01 0.003 0.001

DELAYED TRIGGER

GND.

EXT.

SERIAL

SWEEP STABILITY

POWER ON

TRIGGER AMPL.

TRIGGER SELECTOR -EXT +INT -INT +EXT

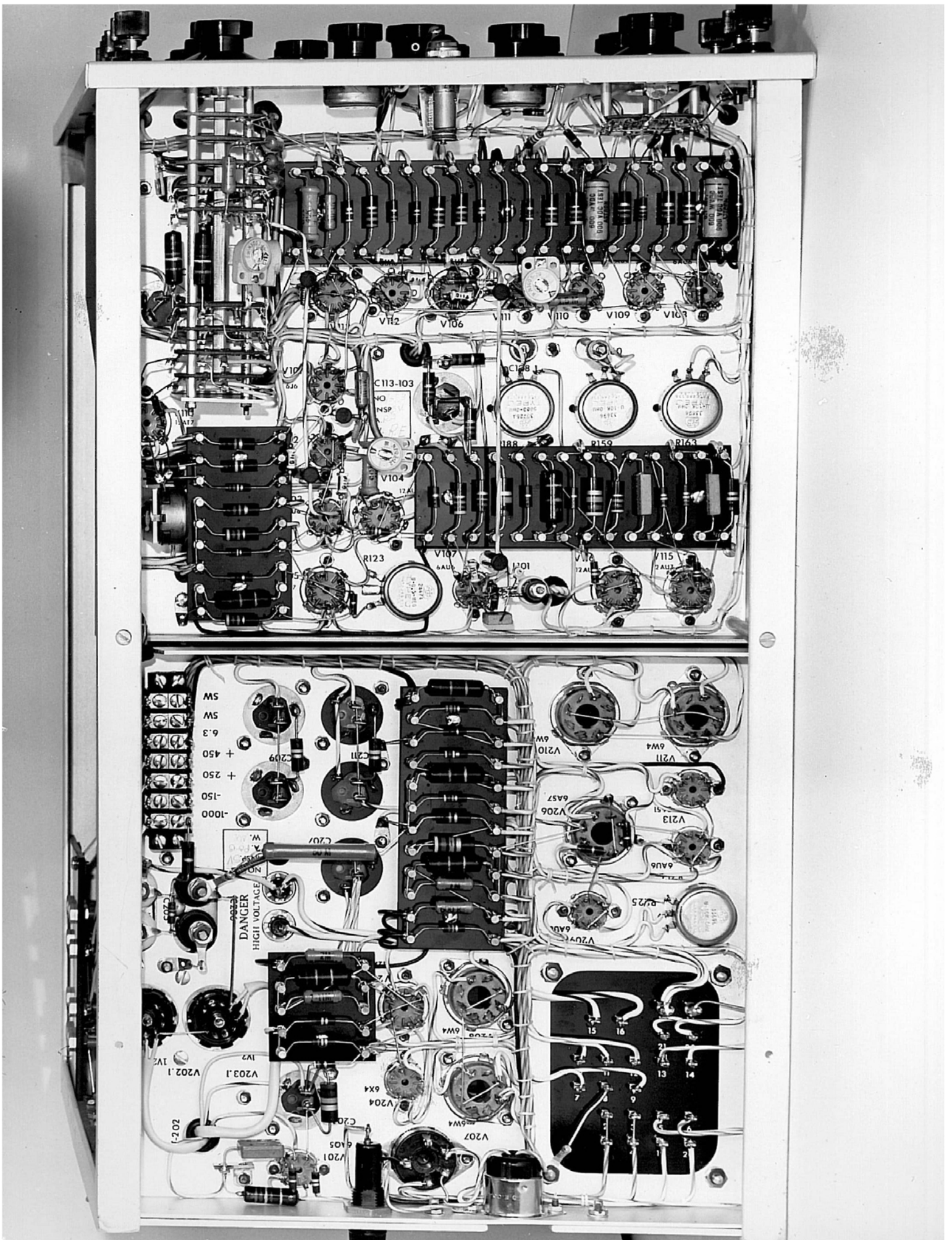
TRIGGER INPUT

GND.

60~

TEKTRONIX

TEKTRONIX, INC. PORTLAND, OREGON, U.S.A.



TYPE 513 CATHODE-RAY OSCILLOSCOPE



CRT CATHODE 6.3V, 1A **SCALE ILLUM.**

VERT. DEFL. SENS. VOLTS/CM
10 3 1 .3
30 100 .03

AC DC

1 MEG. 40 MMF.
600 V MAX.
INPUT 1

GND.

INPUT 2

VERTICAL INPUT CAL RANGE
1.5 5
.5 15
.15 50
0.5 50
INPUT 2 TEST

PROBE POWER

PROBE VOLTS ADJUST

CAL. VOLTAGE
2 3 10 4
5 15 50
0 PEAK TO PEAK 5

DELAY TRIG. OUT

FOCUS **INTENSITY**

VERT. AMPL. ATTN.

VERT. POSITION

ASTIGMATISM

DELAY TRIG. AND GATE POSITION

HOR. POSITION

CAL. OUTPUT

EXT. SWEEP INPUT

DELAY GATE OUT

SWEEP MAGNIFIER POSITION

SWEEP TIME MULTIPLIER

TRIGGER RATE GEN. CYCLES/SEC.
500 1000 2000
200 5000
OFF

RATE GEN. OUT

+ GATE **SWEEP TIME** μ SEC/CM
1000 100 10
EXT 1 .1

SWEEP STABILITY

POWER ON

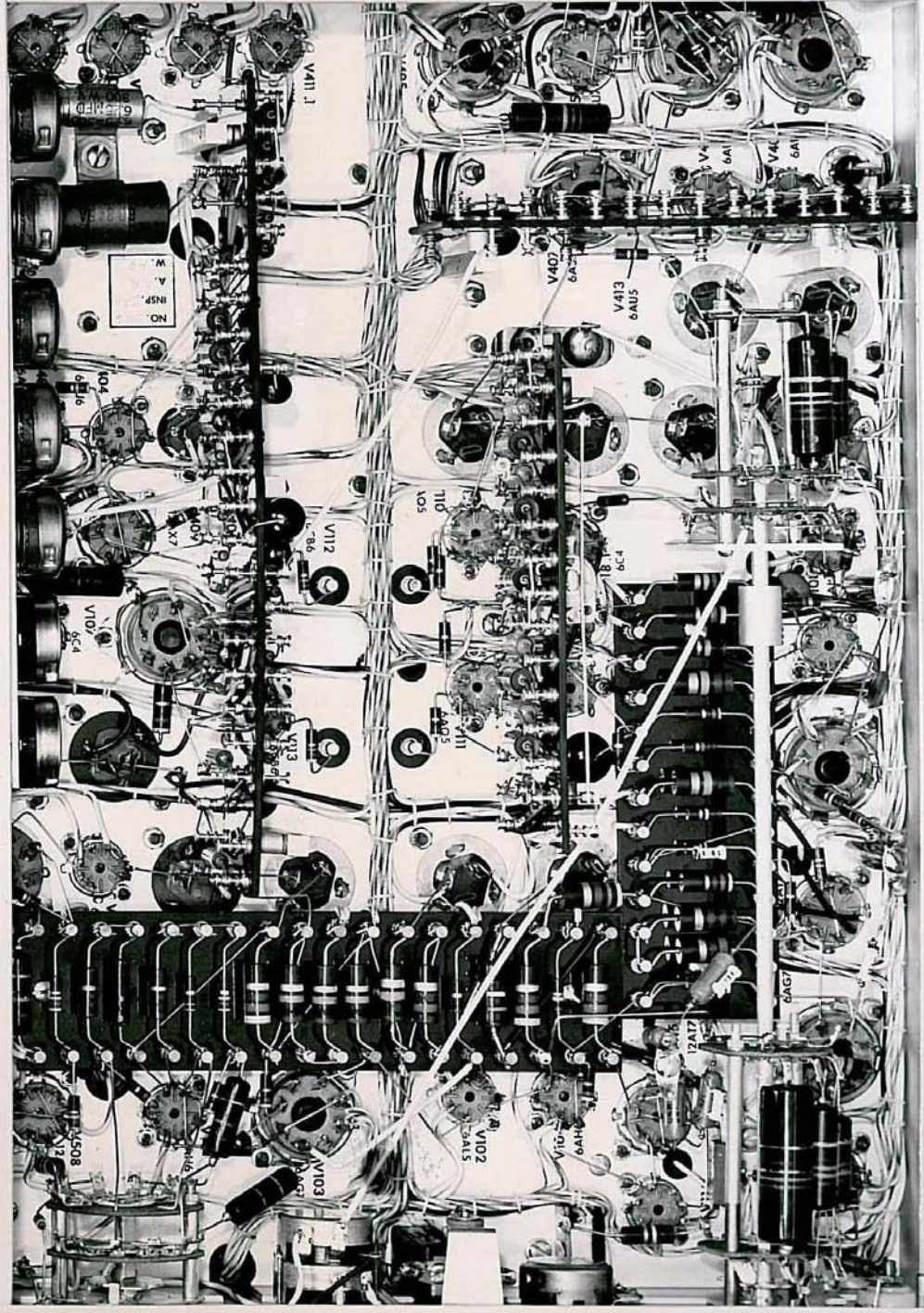
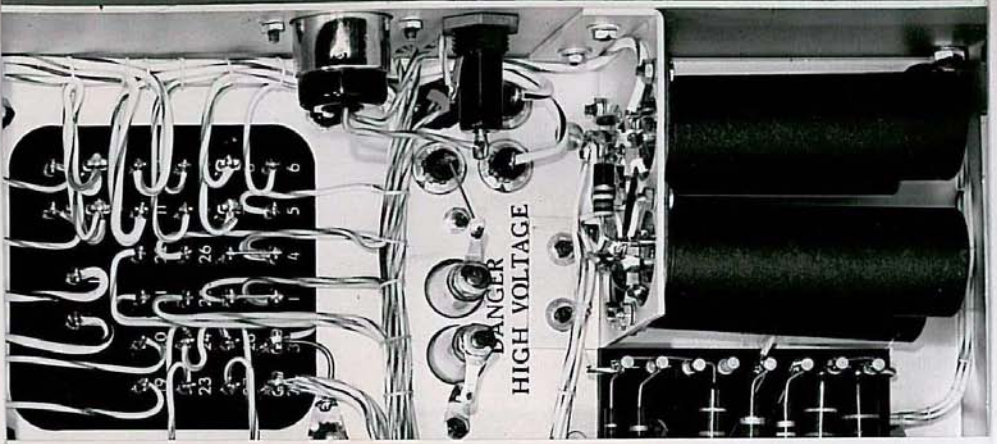
TRIGGER AMPL. OR EXT. SWEEP ATTN.

TRIGGER SELECTOR
+SIG. -SIG.
-EXT. RATE GEN. 60
+EXT. GND.

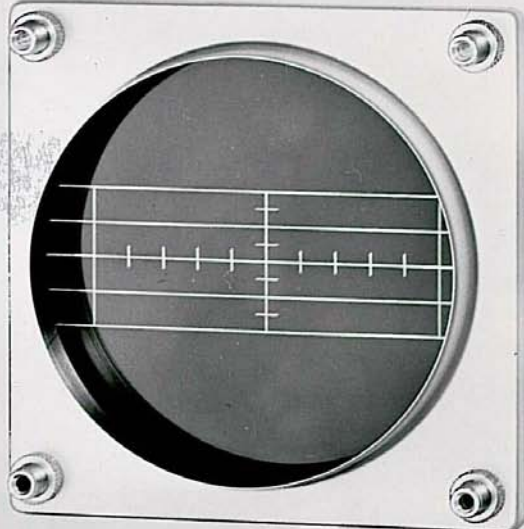
TRIGGER INPUT

SERIAL

TEKTRONIX, INC. PORTLAND, OREGON, U. S. A.



TYPE 514 D CATHODE-RAY OSCILLOSCOPE



VERT. DEFL. SENS.
VOLTS/CM

10 3 1 .3 .1 .03

30 100

AC DC

VERTICAL INPUT
CAL. VOLTAGE RANGE

1.5 5 15 50 50

.5 .15 .05

INPUT TEST

1 MEG. 40 MMF.
600 V. MAX.

INPUT 1

GND.

INPUT 2

CAL. VOLTAGE

2 3 4 5 10 15 5

1 0 PEAK TO PEAK

VERT. AMPL. ATTN.

VERT. POSITION

HOR. POSITION

SCALE ILLUM.

EXT. SWEEP ATTN.

CAL. OUTPUT

EXT. SWEEP INPUT

CRT CATHODE FOCUS INTENSITY

ASTIGMATISM 6.3 V 1 A

SWEEP OUTPUT

SWEEP MAGNIFIER POSITION

SWEEP TIME MULTIPLIER

+GATE

-GATE

SWEEP TIME
μ SEC/CM
1000 100 10

SWEEP STABILITY

POWER ON

TRIGGER AMPL.

TRIGGER SELECTOR
-EXT. +SIG. -SIG.

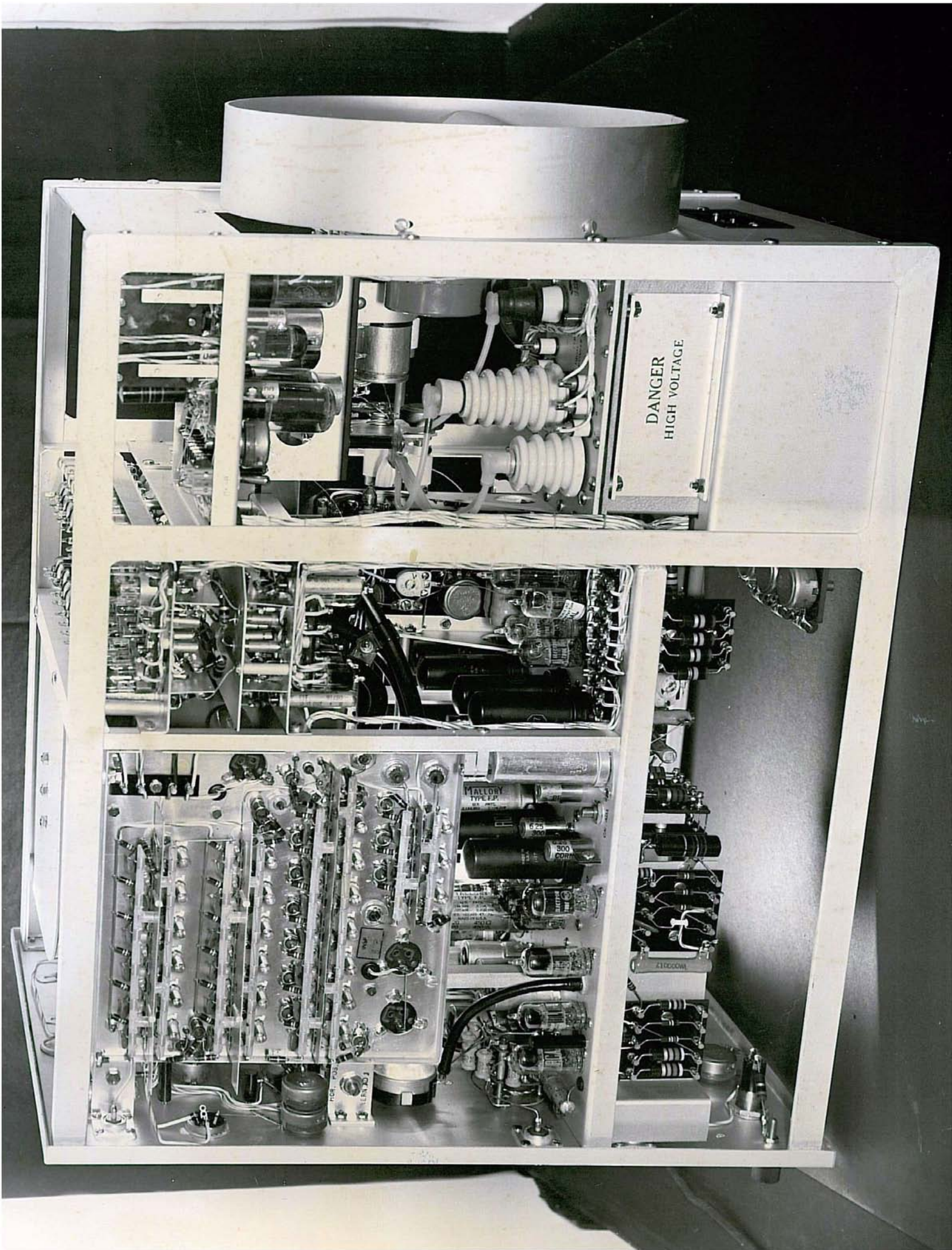
TRIGGER INPUT

GND.

SERIAL

TEKTRONIX, INC., PORTLAND, OREGON, U. S. A.





DANGER
HIGH VOLTAGE

MALLOY
TYPE P.P.

625

300
5000V

1000V
5000V

1000V
5000V

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5000V

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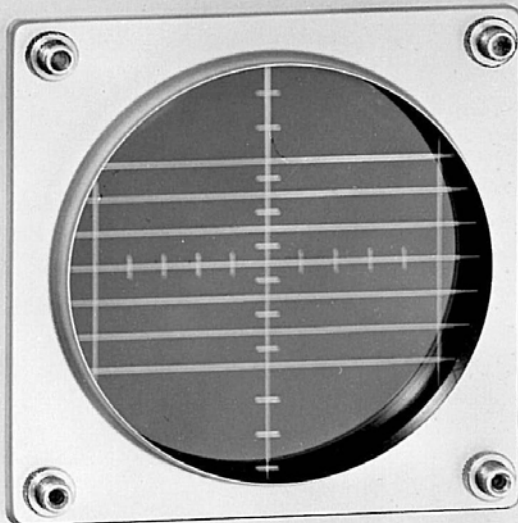
1000V
5000V

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5000V

1000V
5000V

TYPE 524 D CATHODE-RAY OSCILLOSCOPE



VERT. DEFL. SENS.
VOLTS/CM

50 15 5 1.5 .5 .15 .05 .015

AC DC

VERT. ATTEN. ADJ.



VERTICAL INPUT
CAL. VOLTAGE RANGE

15 5 1.5 .5 .15 .05

INPUT 2 1 2 30 TEST

INPUT 1

GND.

INPUT 2

VERT. AMPL. ATTN.

6.3V 1A

CAL. VOLTAGE
PEAK TO PEAK

2 3 4 5

VERT POSITION

CAL DUTY CYCLE

EXT. MARKER
(CRT CATH)

FOCUS

INTENSITY

ASTIGMATISM

TIME MARKER
 μ SEC
.005 H 1 .1
EXT

MARKER AMPL.

SCALE ILLUM.

HOR. POSITION

CAL OUTPUT

GND.

+GATE

-GATE

SWEEP MAGNIFIER
MAG. ADJ. OFF 3X 10X

SWEEP TIME MULTIPLIER

2 3 4 5 6 7 8 9 10

SWEEP DELAY
0.25 MILLISECOND
10 15 20 30 MAX. REP. FREQ.

FEED SHIFT

SWEEP OUTPUT

EXT SWEEP INPUT
INT. 60% SWEEP
EXT. SWEEP
GND.

SWEEP TIME
 μ SEC/CM
1000 100 10

SWEEP STABILITY
OR SWEEP ATTEN.
30 40 50 60 70 80 90 100

POWER ON

TRIGGER AMPL.
OR INT. 60% SWEEP PHASE
30 40 50 60 70 80 90

TRIGGER SELECTOR
60% L-EXT -EXT
+SIG -SIG
+EXT -EXT DELAYED SWEEP

TRIGGER INPUT

GND.

SERIAL 102

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