

CALIBRATION PROCEDURE - TYPE 543

#1 Gen 1ms. - 100 μ s. - 10 μ s simultaneously
Scope 1ms./div.

Horizontal Display

(R368) (R342) (R356)

X1 - X10 - X100 are all adjustable and interact. Best to start by adjusting X10 first as it seems to have most interaction affect.

X1 (R368) Adjust for 1 mark/div.

X10 (R342) Adjust for 1 mark/div.

X100 (R356) Adjust for 1 mark/div.

COMPANY CONFIDENTIAL

#2 Set sweep mag. register

(Done same as in 545)

set mag at X100 - start trace in center of graticule - leave generator same.

set mag at X1 - start trace in center (make first line coincide on X1, 10, 100)

#3 Check X2, X5, X20, X50 (not adjustable)

#4 D.C. Shift (R365) - Mag X100 - no signal in -

turn stability to free running on + off to show trace start drift - tune this drift out.

#5 Check slow sweep rates starting 0.1 ms. on down to 5 μ s. use 1 ms markers - ~~check variable for indicator light and smooth operation of pot.~~

#6 Check variable time/cm for indicator light and smooth operation of pot.

#7 10 μ s markers - Timing at 100 μ s/cm mag X10 set C337 start trace at center of graticule

50 μ s/cm

→ both start at same point
~~(the same as 545A - C337)~~

COMPANY CONFIDENTIAL

Cal. Procedure - TYPE 543

#8 Sweep time + markers 10 μ sec/cm
Mag - "Normal" adj. C160 E for 1 mark/cm

Sweep time + markers 1 μ sec/cm
Mag - "Normal" adj. C160 C for 1 mark/cm

10 meg at 0.1 μ s/cm Mag X1 adjust C160 A
for 1 cycle/div. (Ext. trigger - 10 μ s markers on triggered)

adj. C361 A for linearity over first half of graticule

✓ readj. C160 A for closer timing

50 mc. 2 μ s X100 mag adj. (C378) for longest trace
(C382) (max. speed)

adj. C394 set for best linearity

adj. (C387) for timing
(C388)

preset $\frac{1}{4}$ - $\frac{3}{16}$ inch up

check 1 μ s/cm X50 at 50mc (R check only)

0.5 μ s X20 at 50mc

X10 adj. C361 J. for 5 cycles over 4 cm
To locate where adj. has to be made

Allowed 3% error whenever mag is on (2.4 mm) = 3%

0.2 μ s X10 at 50mc

X5
To locate as above

COMPANY CONFIDENTIAL

4
175
88
1400
4000
15400

13E5 7798

COMPANY CONFIDENTIAL