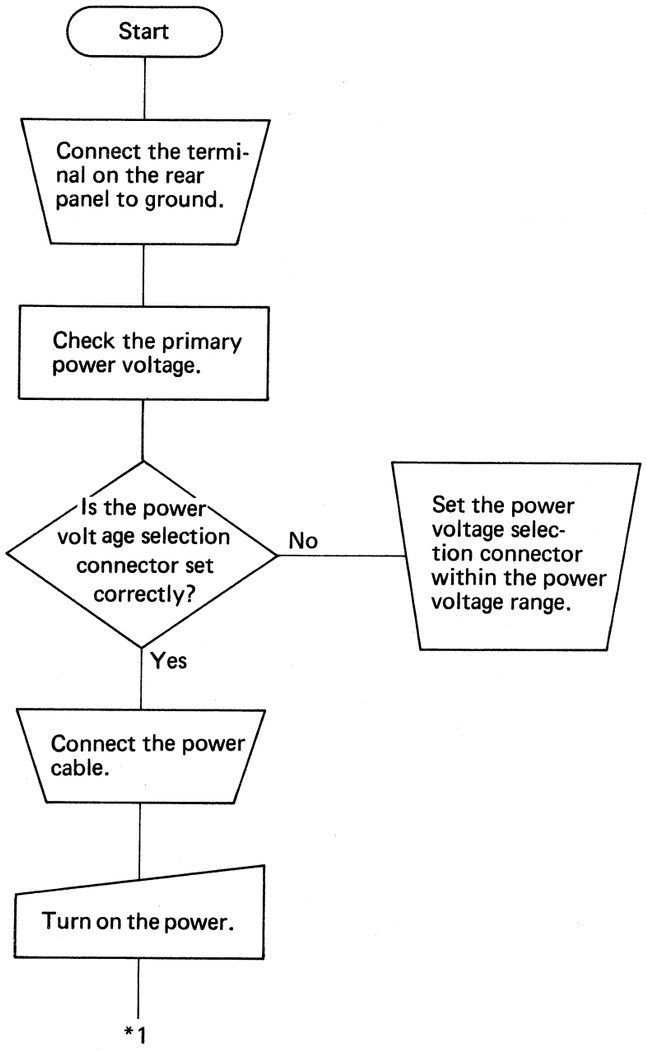
2-5 OPERATION FLOW

Power and Ground



Switches and controls setting

*1

a: Set the switches and controls as follows;
MODE (vertical) CH1
MODE (horizontal) AUTO
↕ POSITION center

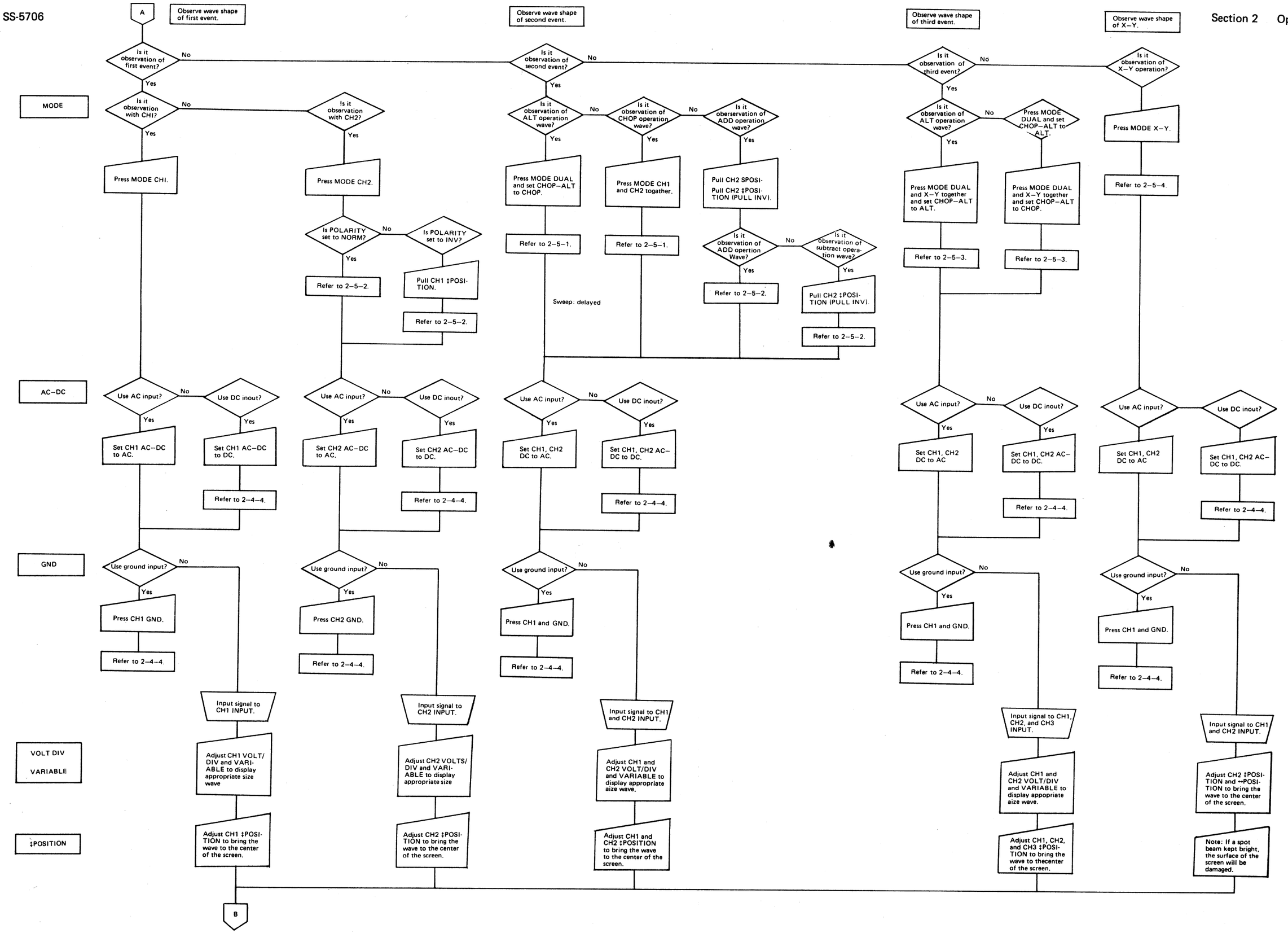
CRT

INTEN — Adjust INTEN to obtain appropriate brightness.

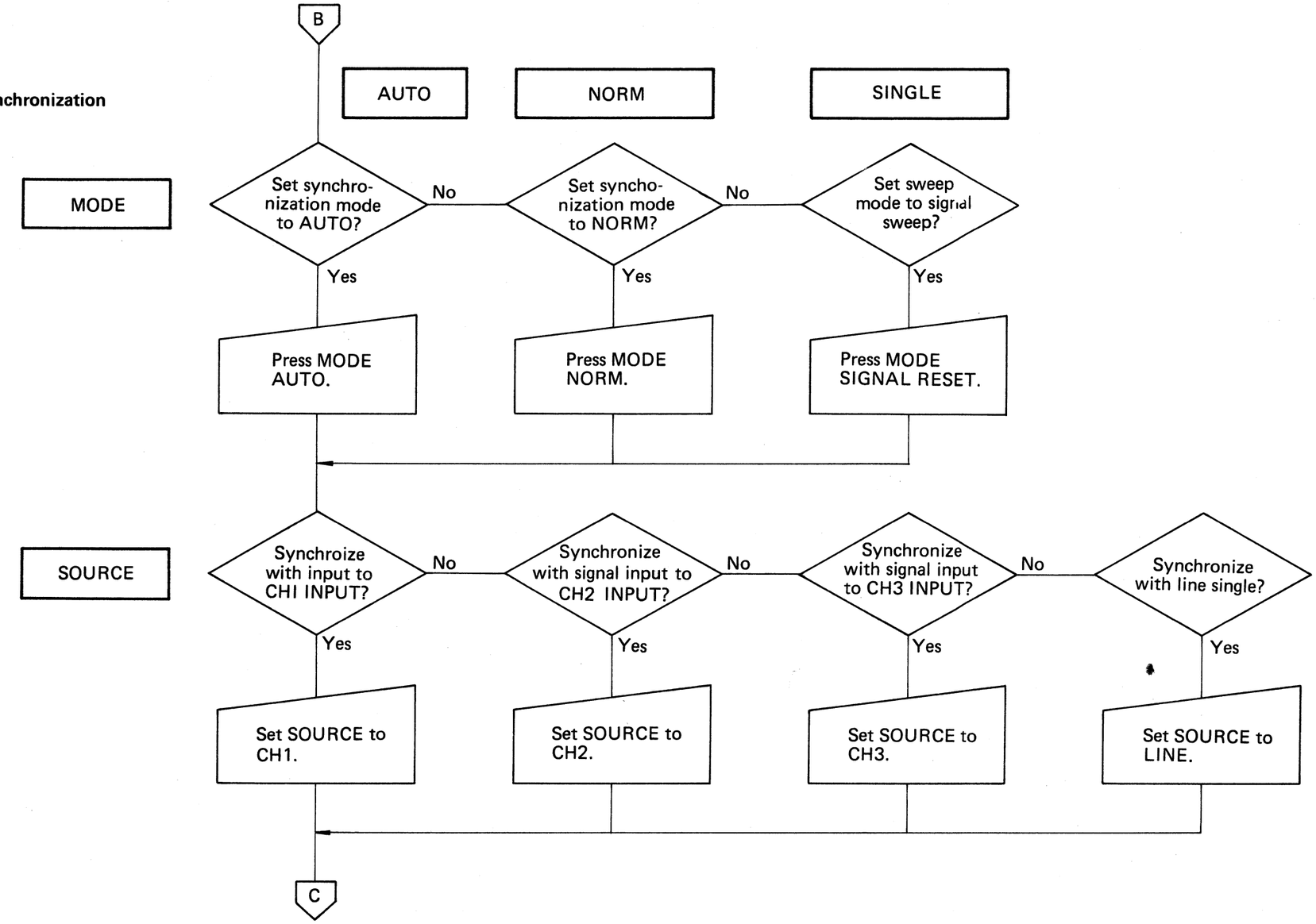
FOCUS — Adjust FOCUS to obtain appropriate focus.

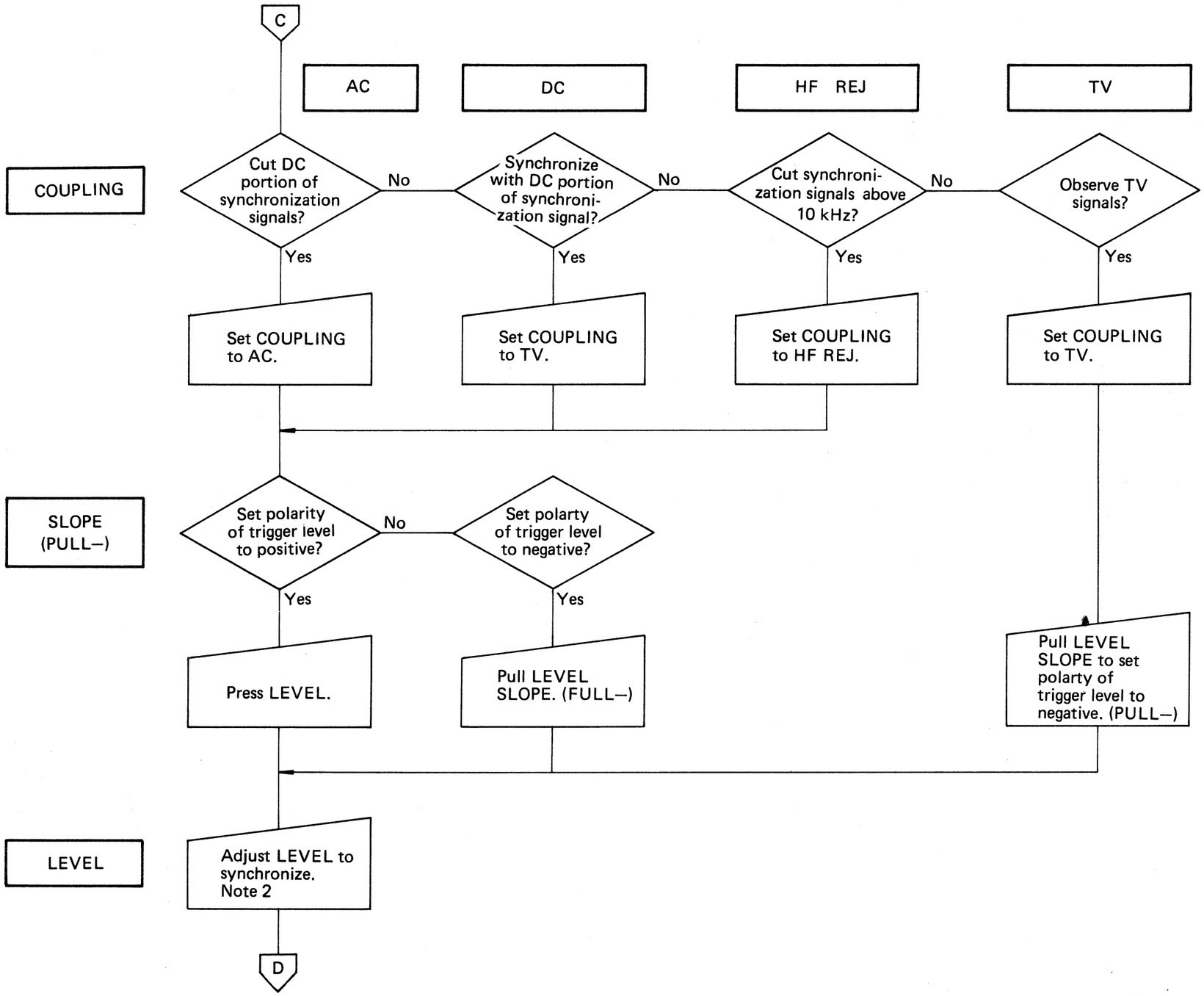
SCALE — Adjust SCALE to obtain appropriate scale brighteness.

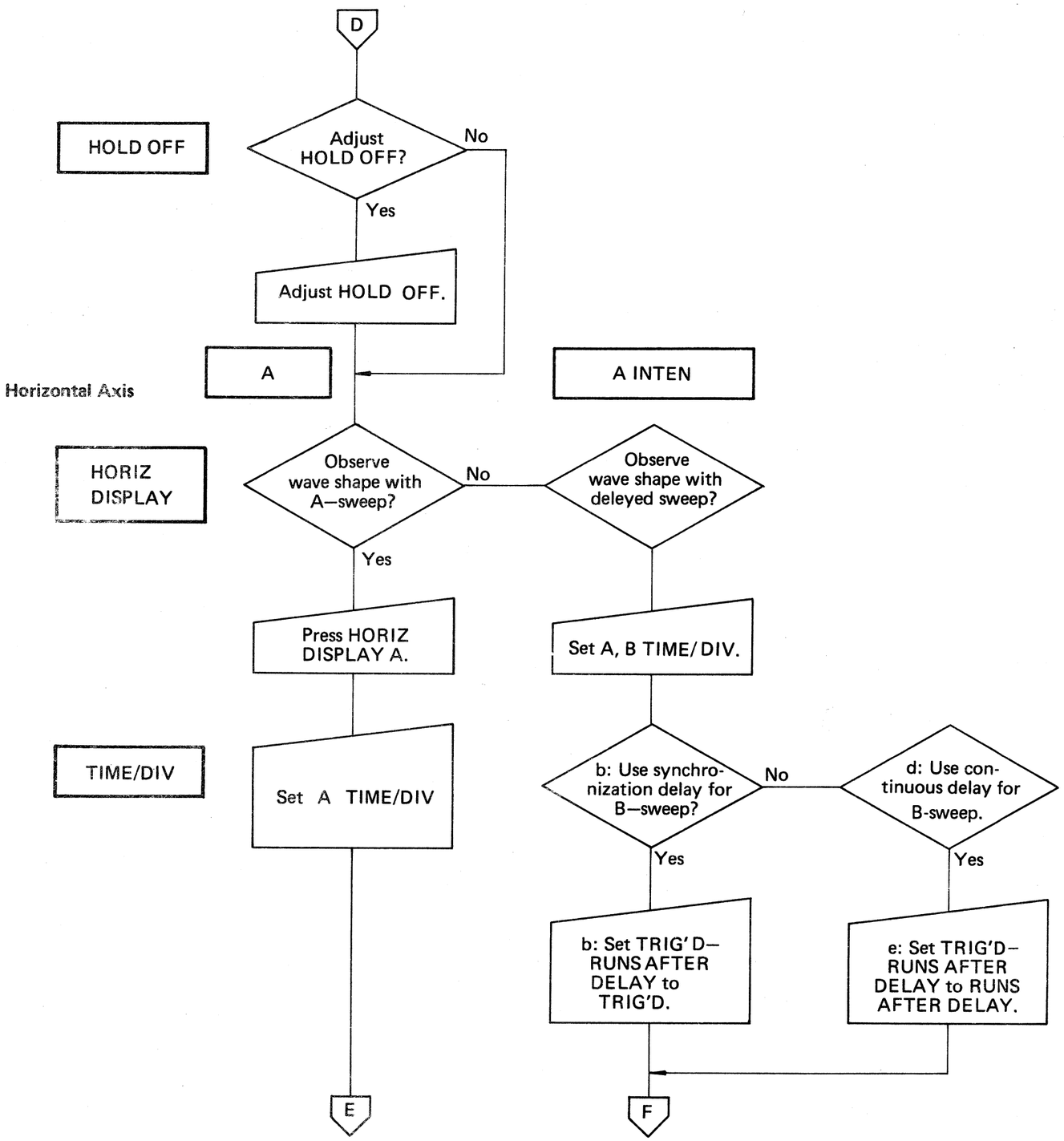
A

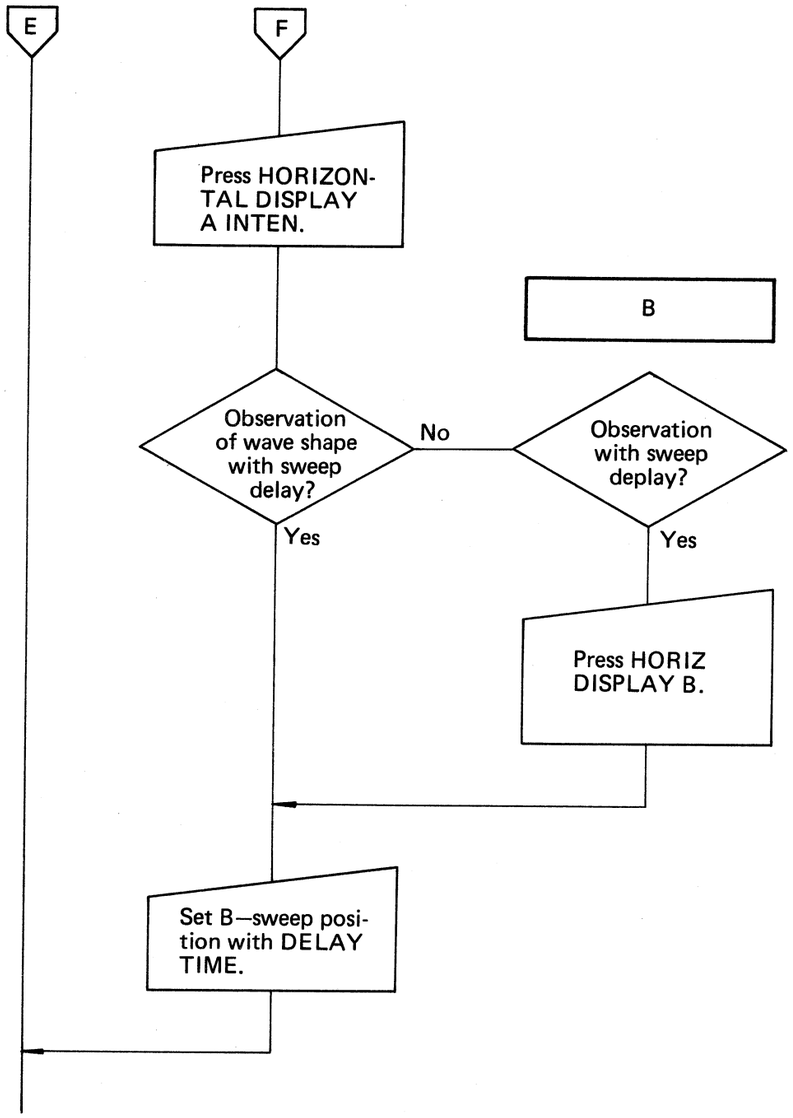

A
Observe wave shape of first event.
Is it observation of first event?
No
Yes
MODE
Is it observation with CH1?
No
Yes
Is it observation with CH2?
Yes
Press MODE CHI.
Press MODE CH2.
Is POLARITY set to NORM?
No
Yes
Is POLARITY set to INV?
Refer to 2–5–2.
Pull CH1 ‡POSITION.
Refer to 2–5–2.
AC–DC
Use AC input?
No
Yes
Use DC inout?
Yes
Set CH1 AC–DC to AC.
Set CH1 AC–DC to DC.
Refer to 2–4–4.
Use AC input?
No
Yes
Use DC inout?
Yes
Set CH2 AC–DC to AC.
Set CH2 AC–DC to DC.
Refer to 2–4–4.
GND
Use ground input?
No
Yes
Press CH1 GND.
Refer to 2–4–4.
Use ground input?
No
Yes
Press CH2 GND.
Refer to 2–4–4.
VOLT DIV
VARIABLE
Input signal to CH1 INPUT.
Adjust CH1 VOLT/DIV and VARIABLE to display appropriate size wave
‡POSITION
Adjust CH1 ‡POSITION to bring the wave to the center of the screen.
Input signal to CH2 INPUT.
Adjust CH2 VOLTS/DIV and VARIABLE to display appropriate size
Adjust CH2 ‡POSITION to bring the wave to the center of the screen.
B
Observe wave shape of second event.
Is it observation of second event?
No
Yes
Is it observation of ALT operation wave?
No
Yes
Is it observation of CHOP operation wave?
No
Yes
Is it observation of ADD operation wave?
Yes
Press MODE DUAL and set CHOP–ALT to CHOP.
Refer to 2–5–1.
Press MODE CH1 and CH2 togather.
Refer to 2–5–1.
Pull CH2 SPOSI-
Pull CH2 ‡POSITION (PULL INV).
Is it observation of ADD opertion Wave?
No
Yes
Is it observation of subtract operation wave?
Yes
Refer to 2–5–2.
Pull CH2 ‡POSITION (PULL INV).
Refer to 2–5–2.
Sweep: delayed
Use AC input?
No
Yes
Use DC inout?
Yes
Set CH1, CH2 DC to AC.
Set CH1, CH2 AC–DC to DC.
Refer to 2–4–4.
Use ground input?
No
Yes
Press CH1 and GND.
Refer to 2–4–4.
Input signal to CH1 and CH2 INPUT.
Adjust CH1 and CH2 VOLT/DIV and VARIABLE to display appropriate aize wave.
Adjust CH1 and CH2 ‡POSITION to bring the wave to the center of the screen.
Observe wave shape of third event.
Is it observation of third event?
No
Yes
Is it observation of ALT operation wave?
No
Yes
Press MODE DUAL and set CHOP–ALT to ALT.
Press MODE DUAL and X–Y together and set CHOP–ALT to ALT.
Refer to 2–5–3.
Press MODE DUAL and X–Y together and set CHOP–ALT to CHOP.
Refer to 2–5–3.
Use AC input?
No
Yes
Use DC inout?
Yes
Set CH1, CH2 DC to AC
Set CH1, CH2 AC–DC to DC.
Refer to 2–4–4.
Use ground input?
No
Yes
Press CH1 and GND.
Refer to 2–4–4.
Input signal to CH1, CH2, and CH3 INPUT.
Adjust CH1 and CH2 VOLT/DIV and VARIABLE to display appopriate aize wave.
Adjust CH1, CH2, and CH3 ‡POSITION to bring the wave to thecenter of the screen.
Observe wave shape of X–Y.
Is it observation of X–Y operation?
Press MODE X–Y.
Refer to 2–5–4.
Use AC input?
Use DC inout?
Set CH1, CH2 DC to AC
Set CH1, CH2 AC–DC to DC.
Refer to 2–4–4.
Use ground input?
No
Yes
Press CH1 and GND.
Refer to 2–4–4.
Input signal to CH1 and CH2 INPUT.
Adjust CH2 ‡POSITION and ↔POSITION to bring the wave to the center of the screen.
Note: If a spot beam kept bright, the surface of the screen will be damaged.

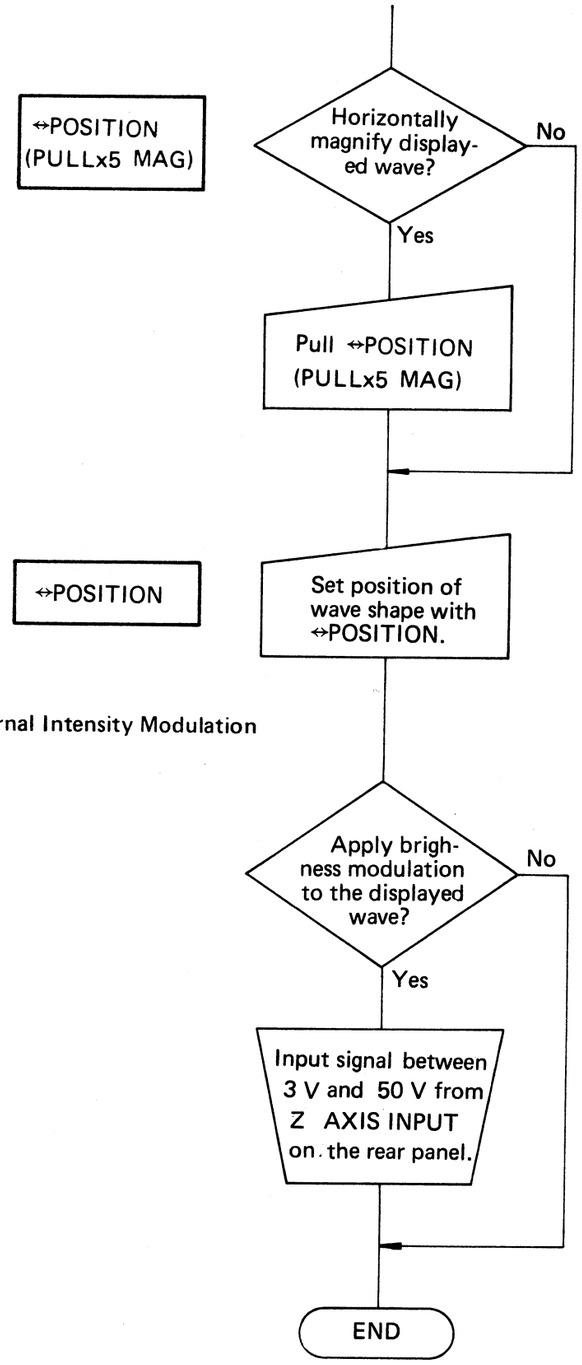
Synchronization




C
AC
DC
HF REJ
TV
COUPLING
Cut DC portion of synchronization signals?
No
Synchronize with DC portion of synchroni-zation signal?
No
Cut synchroni-zation signals above 10 kHz?
No
Observe TV signals?
Yes
Yes
Yes
Yes
Set COUPLING to AC.
Set COUPLING to TV.
Set COUPLING to HF REJ.
Set COUPLING to TV.
SLOPE (PULL—)
Set polarity of trigger level to positive?
No
Set polarty of trigger level to negative?
Yes
Yes
Press LEVEL.
Pull LEVEL SLOPE. (FULL—)
Pull LEVEL SLOPE to set polarty of trigger level to negative. (PULL—)
LEVEL
Adjust LEVEL to synchronize. Note 2
D


D
HOLD OFF
Adjust HOLD OFF?
No
Yes
Adjust HOLD OFF.
Horizontal Axis
A
A INTEN
HORIZ DISPLAY
Observe wave shape with A—sweep?
No
Observe wave shape with deleyed sweep?
Yes
Press HORIZ DISPLAY A.
Set A, B TIME/DIV.
TIME/DIV
Set A TIME/DIV
b: Use synchro-nization delay for B—sweep?
No
d: Use con-tinuous delay for B-sweep.
Yes
Yes
b: Set TRIG'D—RUNS AFTER DELAY to TRIG'D.
e: Set TRIG'D—RUNS AFTER DELAY to RUNS AFTER DELAY.
E
F


E
F
Press HORIZON-TAL DISPLAY A INTEN.
B
Observation of wave shape with sweep delay?
No
Observation with sweep deplay?
Yes
Yes
Press HORIZ DISPLAY B.
Set B—sweep posi-tion with DELAY TIME.


↔POSITION (PULLx5 MAG)
Horizontally magnify display-ed wave?
No
Yes
Pull ↔POSITION (PULLx5 MAG)
↔POSITION
Set position of wave shape with ↔POSITION.
External Intensity Modulation
Apply brigh-ness modulation to the displayed wave?
No
Yes
Input signal between 3 V and 50 V from Z AXIS INPUT on the rear panel.
END