

DISPLAY PERFORMANCE

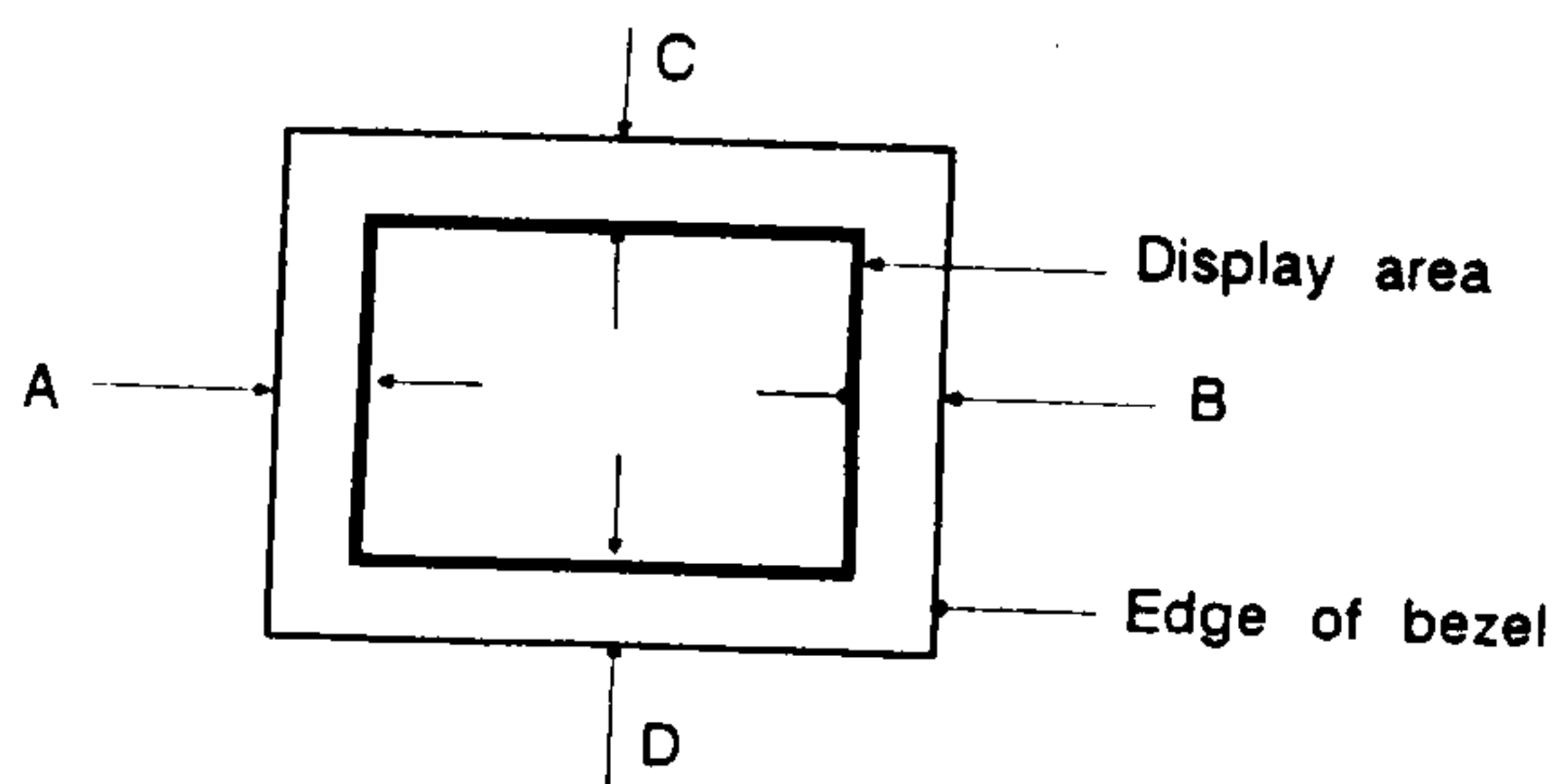
1. DISPLAY AREA

- WIDTH : $240 \pm 5\text{mm}$
- HEIGHT : $180 \pm 5\text{mm}$

2. CENTERING

$$|A - B| \leq 3\text{mm}$$

$$|C - D| \leq 2.5\text{mm}$$

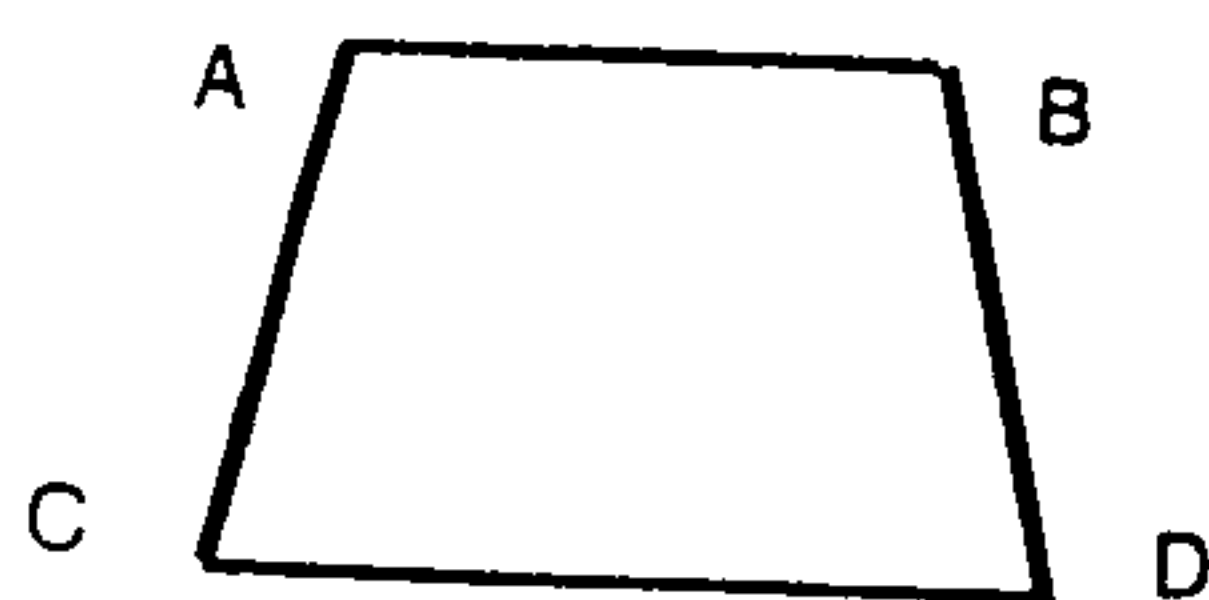


3. DISTORTION

a) Trapezoid

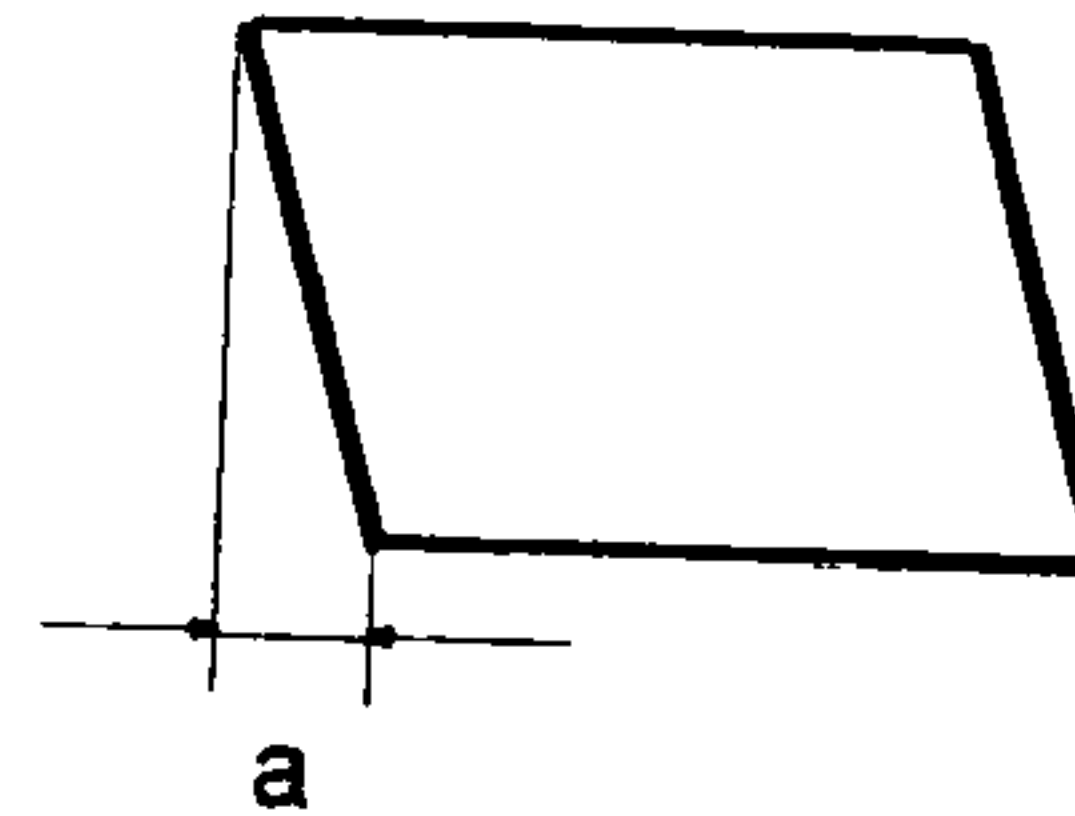
$$\frac{|AC - BD|}{|AC + BD|} \times 100 \leq 1\%$$

$$\frac{|AB - CD|}{|AB + CD|} \times 100 \leq 1\%$$



b) Parallelogram

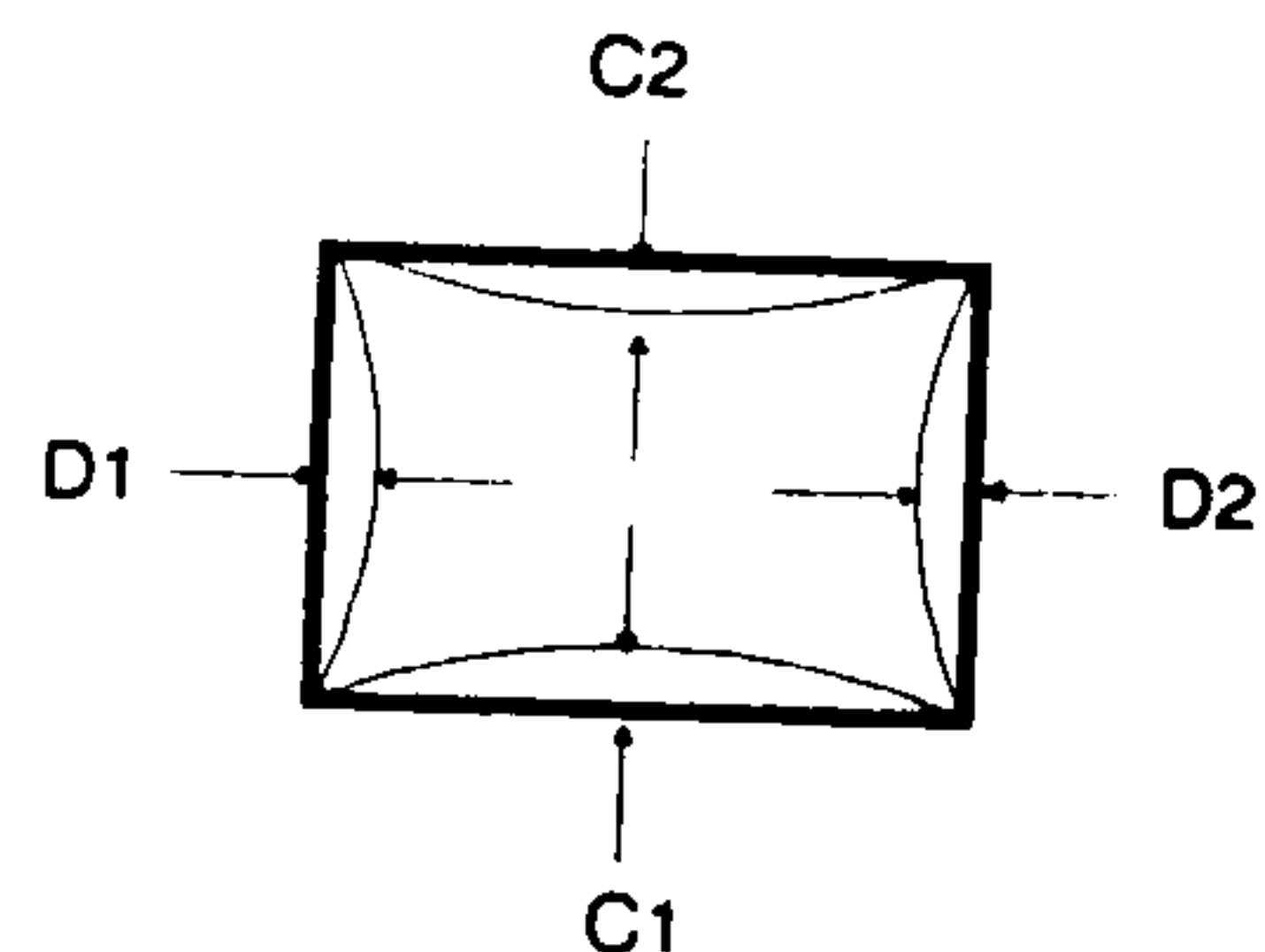
$$|a| \leq 2.5\text{mm}$$



c) Pincushion

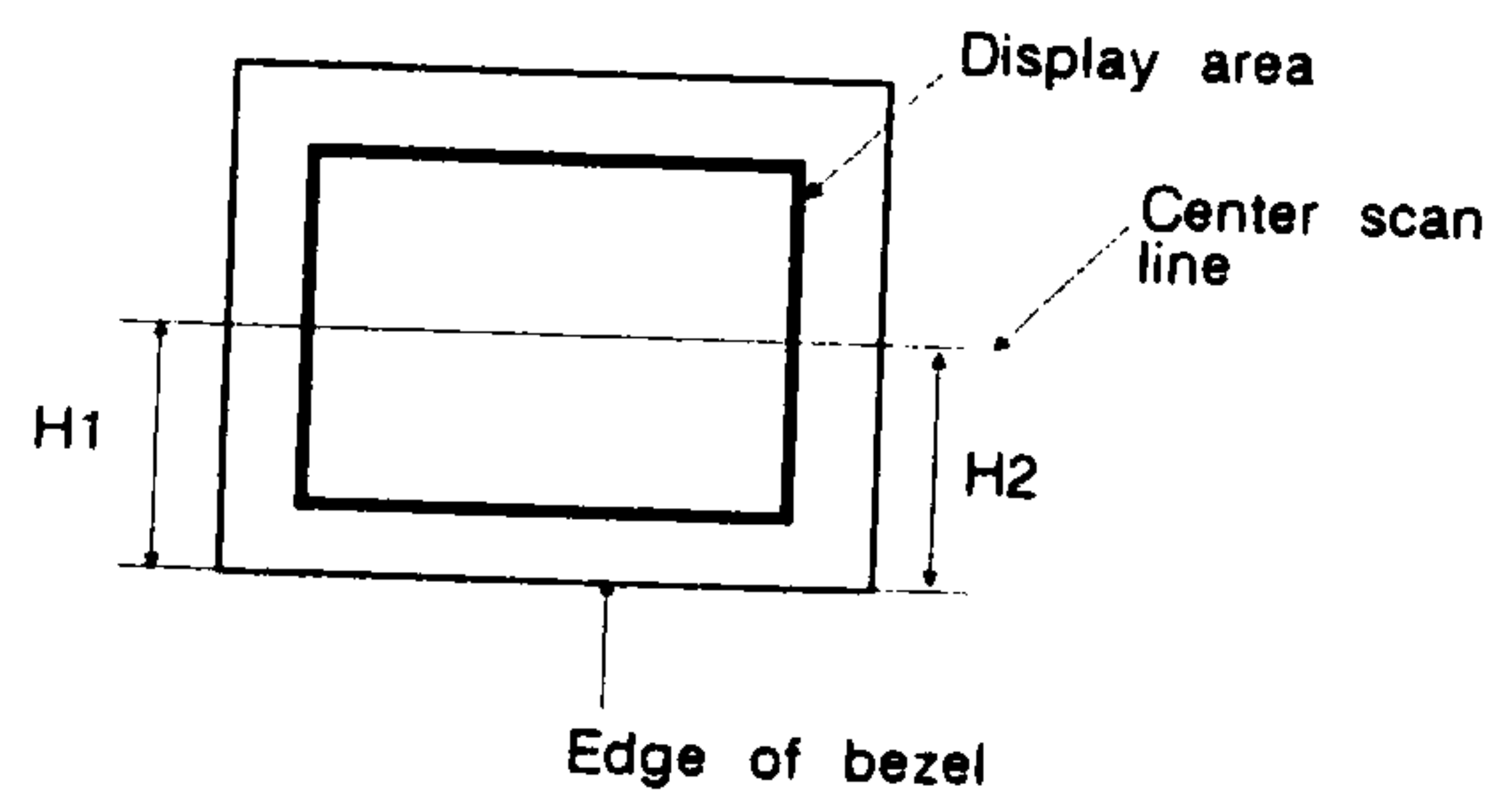
$$|C1|, |C2| \leq 2.5\text{mm}$$

$$|D1|, |D2| \leq 3.0\text{mm}$$



(d) Rotation

$$|H1 - H2| \leq 2.0\text{mm} (\pm 0.5^\circ)$$



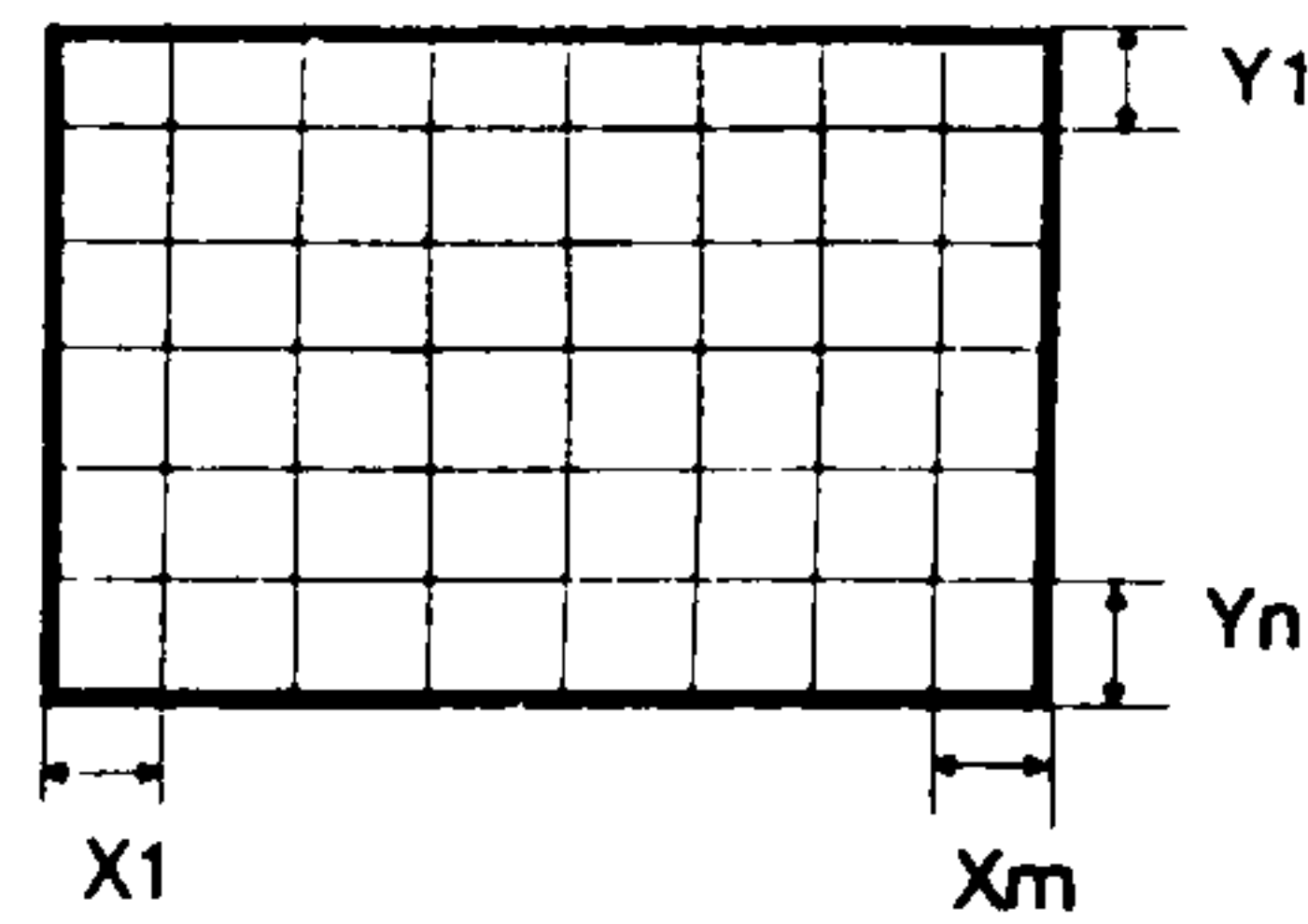
4. LINEARITY

- Horizontal linearity

$$H_L = \frac{X_{max} - X_{min}}{\bar{X}} \times 100\% \times 0.5 \leq 7\%$$

- Vertical linearity

$$V_L = \frac{Y_{max} - Y_{min}}{\bar{Y}} \times 100\% \times 0.5 \leq 5\%$$



- Conditions

Display image : Crosshatch pattern
Maximum and minimum values should not be adjacent to each other.

X max is maximum value among X1 ~ Xm
X min is minimum value among X1 ~ Xm

$$\bar{X} = \frac{X_1 + X_2 \dots X_m}{m} \quad (m \geq 11)$$

Y max is maximum value among Y1 ~ Yn
Y min is minimum value among Y1 ~ Yn

$$\bar{Y} = \frac{Y_1 + Y_2 \dots Y_n}{n} \quad (n \geq 10)$$

5. BRIGHTNESS UNIFORMITY

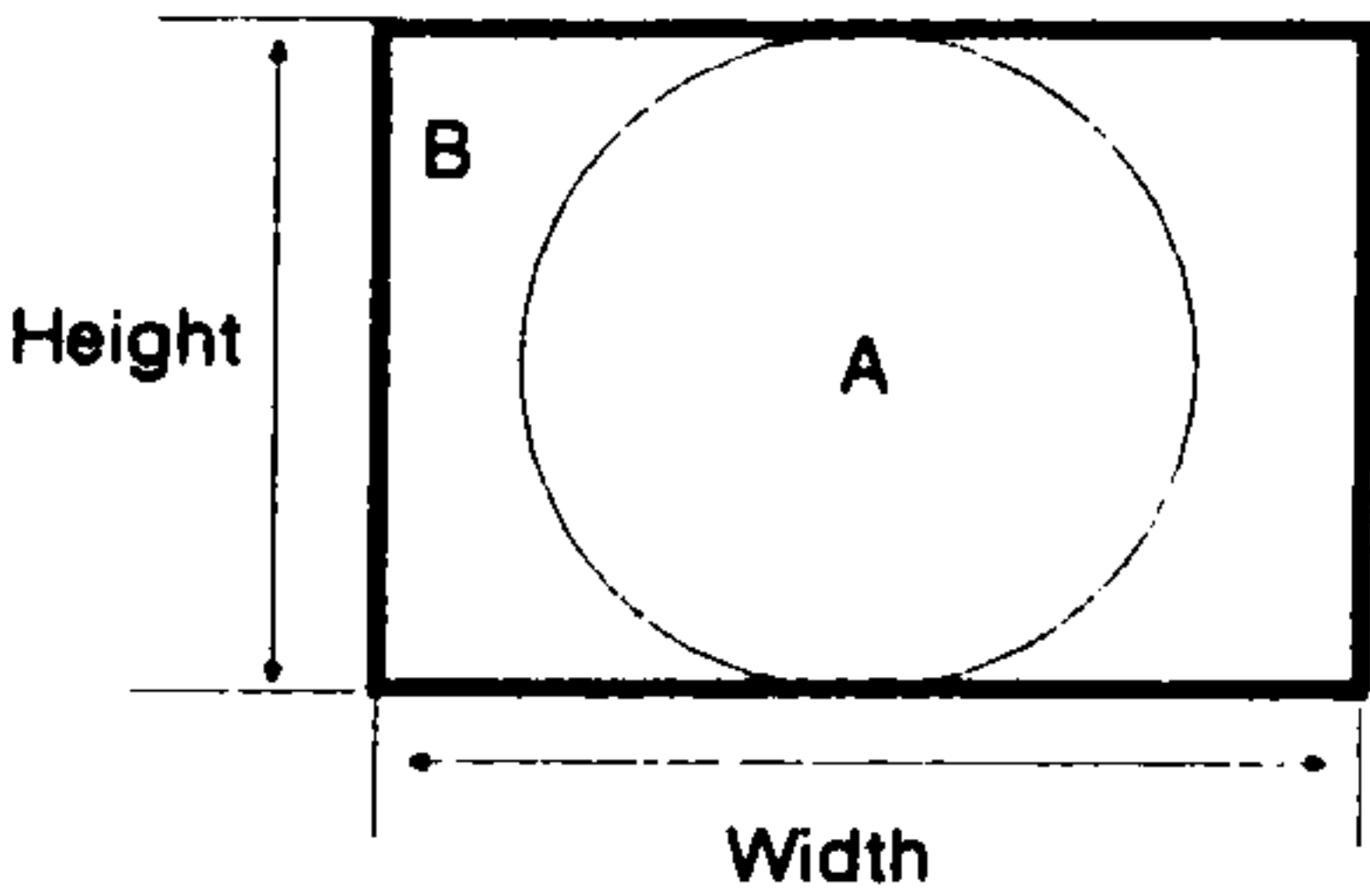
Value	65% (Min) Variation = $\frac{C}{A} \times 100$
Conditions	Display image : White flat field Luminance : F/L at the center of display area A : Luminance at position of the highest C : Luminance at position of lowest brightness

6. COLOR POINT

Value	9300°K + 27MPCD X = 0.281 ±0.03, Y = 0.311 ±0.03
Conditions	Display image : White flat field at the center of display area. Luminance : min : 3 F/L max : 20 F/L

7. MISCONVERGENCE

Center area of display ("A" circle is 180mm) (A) : 0.3mm
Peripheral area of display (B) : 0.45mm



- Conditions
Display image : Crosshatch pattern mixed with R, G and B colors.

8. PURITY

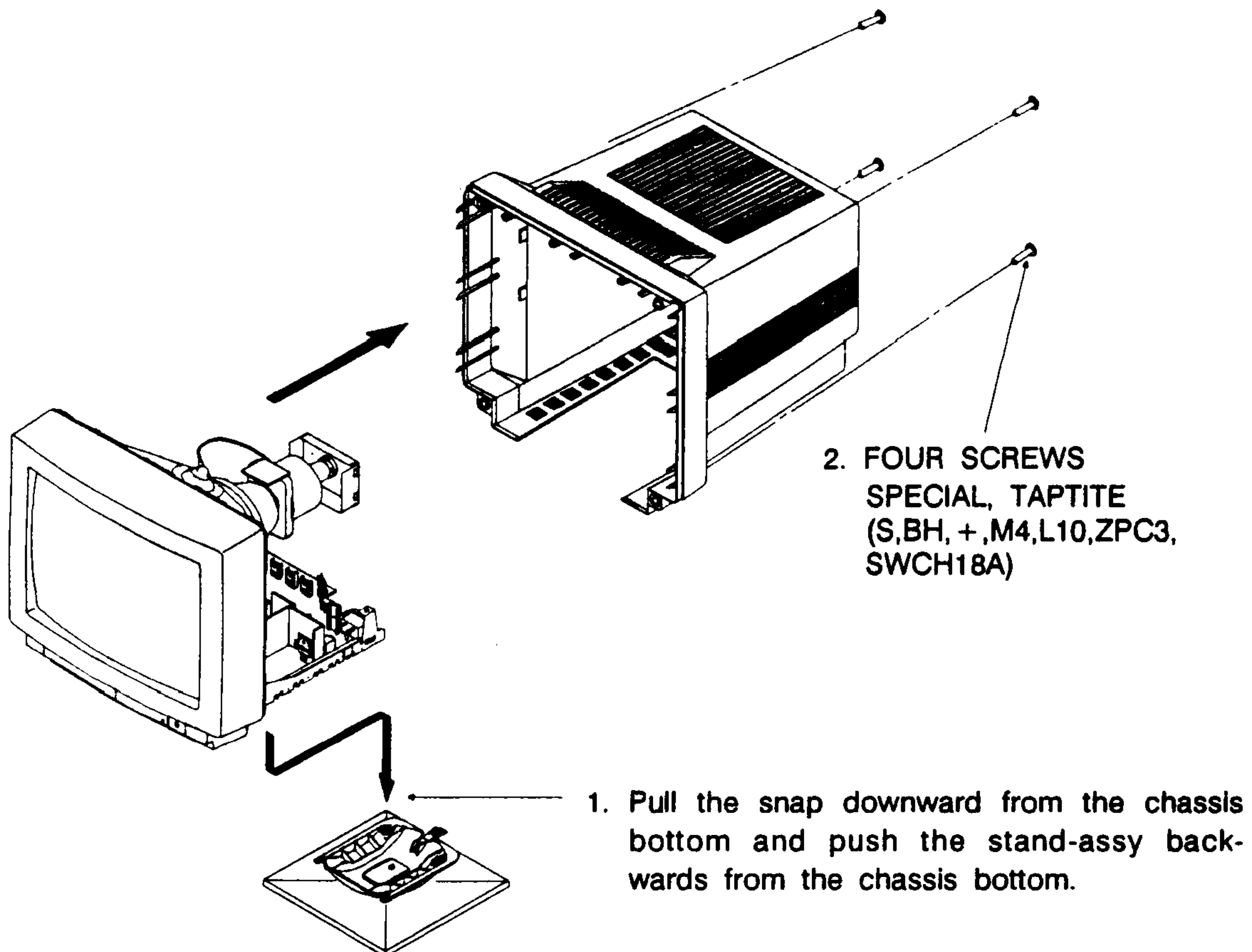
Consp

FACTORY PRESET SIGNAL TIMING CHART

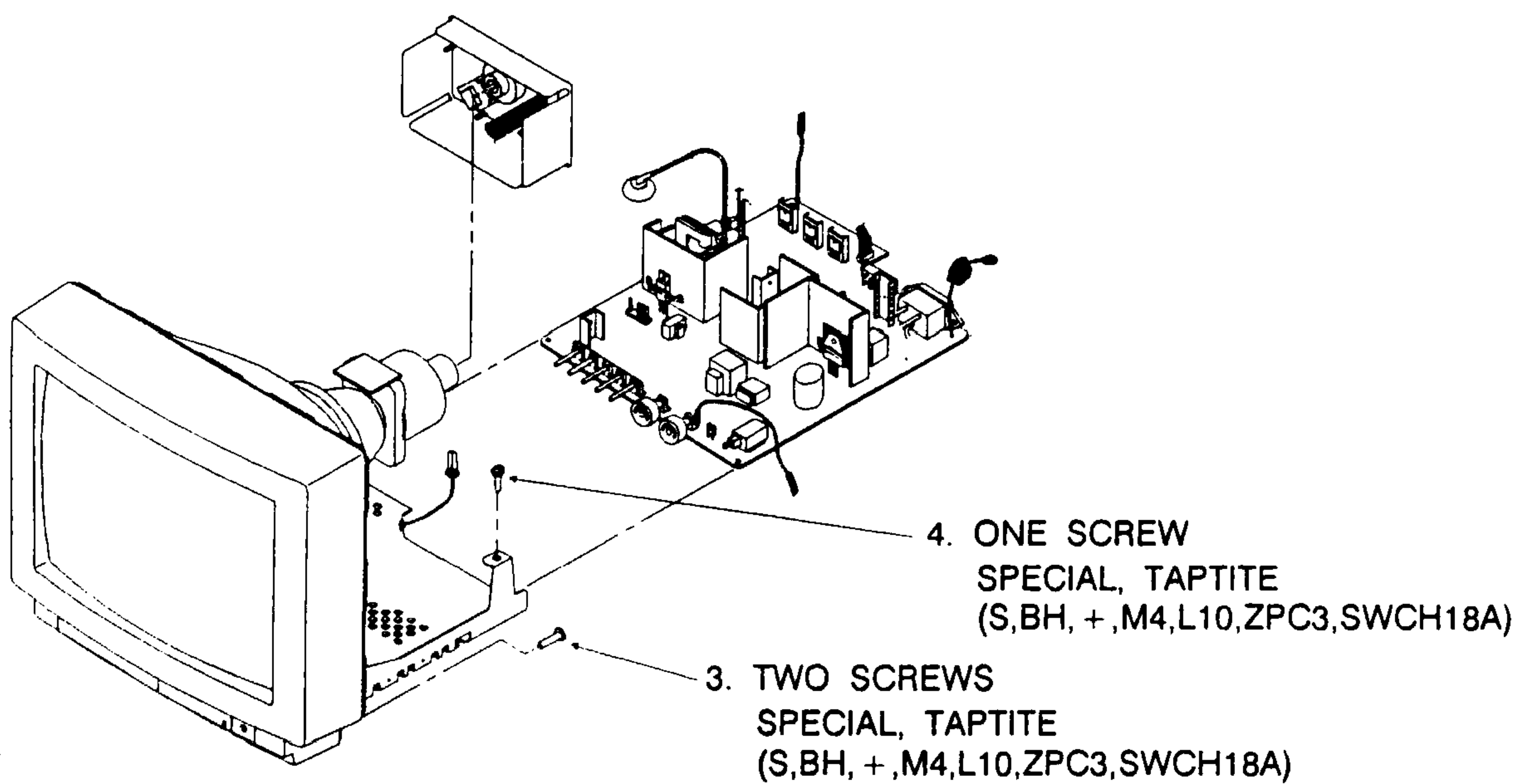
Mode Timing	VGA & MCGA Compatible			8514A & XGA	VESA		SVGA
	VGA1	VGA2	VGA3		VGA	SVGA	
	640x350	640x400	640x480		640x480	800x600	
fH (KHz)	31.468	31.468	31.468	35.520	37.860	37.879	35.156
A msec	31.778	31.778	31.778	28.150	26.413	26.400	28.444
B msec	3.813	3.813	3.813	3.920	1.270	3.200	2.000
C msec	1.589	1.589	1.589	1.250	4.603	2.200	3.556
D msec	26.058	26.058	26.058	22.800	20.317	20.000	22.222
E msec	0.318	0.318	0.318	0.180	0.762	1.000	0.667
fV (Hz)	70.080	70.080	59.940	86.960	72.809	60.317	56.250
O msec	14.268	14.268	16.683	11.500	13.735	16.579	17.778
P msec	0.064	0.064	0.064	0.113	0.079	0.106	0.057
Q msec	1.716	0.890	0.794	0.563	0.740	0.607	0.626
R msec	11.504	13.156	15.762	10.810	12.678	15.840	17.067
S msec	0.985	0.159	0.064	0.014	0.238	0.026	0.028
Clock Fre. (MHz)	25.175	28.322	25.175	44.912	31.500	40.000	36.000
Polarity H. Sync V. Sync	Positive Negative	Negative Positive	Negative				

DISASSEMBLY

1. STAND & CABINET REMOVAL



2. BOTTOM SHIELD REMOVAL



BLOCK DIAGRAM

