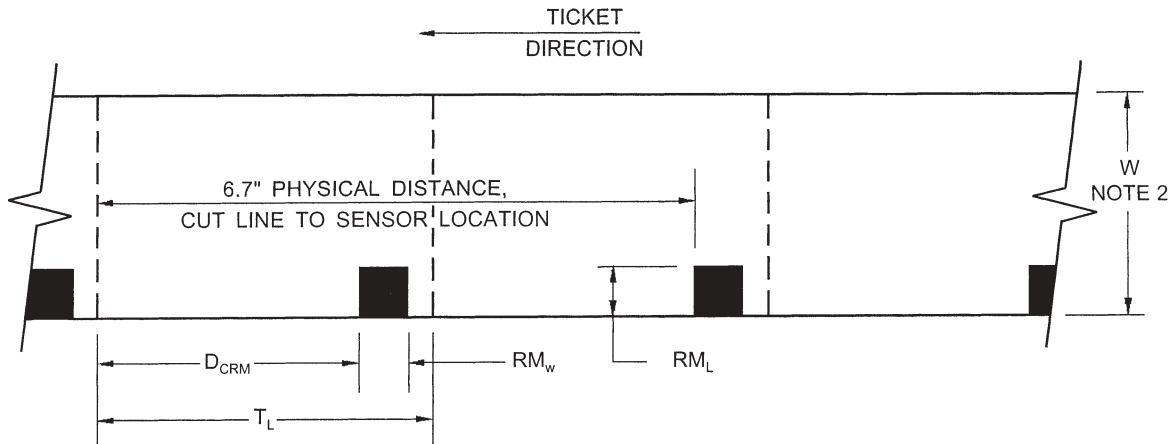


# BAR LOCATION FORMULA

for

**BOCA: ETX Machines**

**PRACTICAL AUTOMATION: ETX, ITX, GTX Machines**



**REGISTRATION MARK:**

1/5 of light background, yielding 5:1 contrast ratio to infrared light

**NOTE**

To avoid having the registration mark printed over the cut line (perforation), the ticket length ( $T_L$ ) must be:

$$T_L \geq (D_{CRM} + RM_w)$$

or

$$T_L \leq D_{CRM}$$

**REGISTRATION MARK MUST BE POSITIONED ACCORDING TO FOLLOWING FORMULA:**

$$D_{CRM} = 6.7" - (T_L \times m)$$

Where:

$D_{CRM}$  = distance from cut line to registration mark

$T_L$  = ticket length in inches

$RM_w$  = registration mark width (.375" min.)

6.7" = mechanical separation from cut line to sensor

$m = 6.7"/T_L$  (multiple of tickets within 6.7" separation; integer value)

Examples:

$$T_L = 5.5"$$

$$m = 6.7"/5.5" = 1$$

$$D_{CRM} = 6.7" - (5.5 \times 1) = 1.2"$$

$$T_L = 2.5"$$

$$m = 6.7"/2.5" = 2$$

$$D_{CRM} = 6.7" - (2.5 \times 2) = 1.7"$$



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This sample layout has been done on a "LEGAL" page size. If printing, to ensure accuracy of measurements, the box this is enclosed in should measure 12.5" x 0.25"

