

# Vector Generator Instructions

(6809 Style)

VCTR

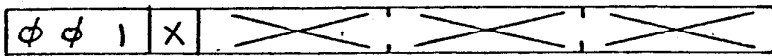
$\Delta X, \Delta Y$  in 2's Complement

INTENSITY =  $Z * ZSTAT$  (see COLOR)



HALT

Stop Drawing



SVEC

Short Vector

$\Delta X, \Delta Y$  are  $\frac{1}{2}$  the 2's Comp.:  $Z$  as in VCTR

$\Delta X = \Delta Y = \phi$  NOT ALLOWED



COLOR (STAT)

Colors: 4-RED, 2-GREEN, 1-BLUE, 8-DON'T CARE

ZSTAT is Intensity Multiplier



SCAL

Scaling

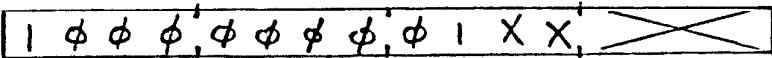
BIN multiplies all lengths by  $2^{1-BIN}$

LIN multiplies all lengths by  $1 - \frac{LIN}{2^8}$



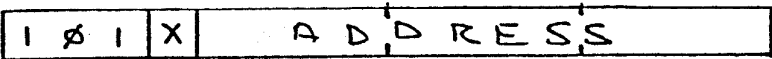
CNTR

Center beam



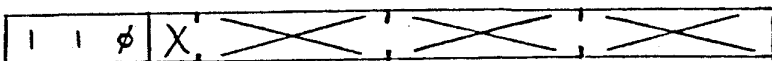
JSRL

Jump to Subroutine at  $2 * ADDRESS$   
(3 Levels allowed)



RTSL

Return from Subroutine



JMPL

Jump to  $2 * ADDRESS$

