Service Bulletin Nº 76



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DATE:

August 23, 1995

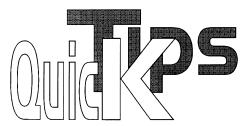
SUBJ:

TESTING SMALL DOT MATRIX GAS PLASMA DISPLAY GLASS

BEFORE INSTALLATION OR WHILE MOUNTED ON THE P.C. BOARD

SMALL DOT MATRIX ASSY. -SMALL DOT MATRIX GLASS - Sega Part Nº 520-5042-00 Sega Part Nº 522-5006-00

PROBLEM



How can you tell if your new Dot Matrix Glass is good (will light up) before you spend a half hour to install it? Or, how to tell if the existing glass on the board is good.

YOU WILL NEED

(QTY 2) E-Z Hook Jumpers (one black, one red is ideal, but not necessary).

(QTY 1) 33 K ohm $\frac{1}{2}$ watt resistor.

NOTE:

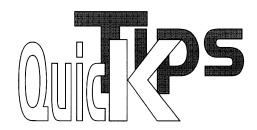
THIS TEST ASSUMES ALL DC INPUT VOLTAGES TO THE DISPLAY PCB ARE GOOD.

PROCEDURE

Connect the black jumper from either side of C29 (axial lead cap near U15) to one of the row pins on the Dot Matrix Glass (the pins along the short side of the glass). This connection puts either -110v DC or -98v DC on the row that you connect the jumper to. (particular voltage is not important for this test).

NOTE:

THERE ARE TWO SETS OF ROW PINS (ON THE 128 X 16 GLASS) ONE ON EITHER SIDE OF DISPLAY GLASS--THESE ARE ROWS FOR THEIR RESPECTIVE SIDES OF THE DOT MATRIX.



PROCEDURE Cont.

Connect the 33 K ohm ½ watt resistor to one end of the red jumper and the other end of jumper to the cathode of CR2 on the PCB. You now have a series resistor connected to +68v DC. Pick a column on the display glass that is on the same half of the glass as your black jumper. Touch the free end of the resistor to this column pin, and you should see one dot (at the intersection of the row and column you just jumpered) glowing.

THIS TEST WORKS WITH GLASS THAT IS BOTH ON-OR-OFF THE BOARD (INSTALLED OR NOT), AND FOR A QUICK COLUMNS TEST YOU CAN JUST RUN THE FREE END OF THE RESISTOR ALONG THE COLUMN PINS (REMEMBERING ONLY ONE SIDE AT A TIME WORKS--THE SIDE WITH THE ROW JUMPER).