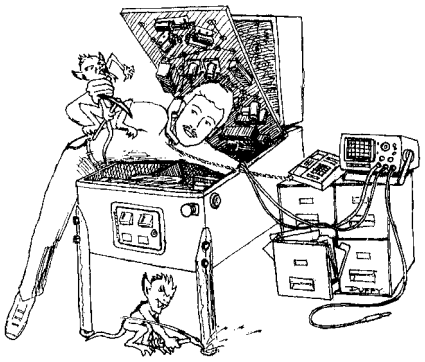
Service Bulletin Nº 106



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TO: Parts & Service Managers

DATE: June 2, 1998

SUBJ: **Large Dot Display (192 X 64) Optional Enhancement Cable Wiring Harness Update Kit (ask for SPI Nº 500-6326-00)**

For :

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Explanation:

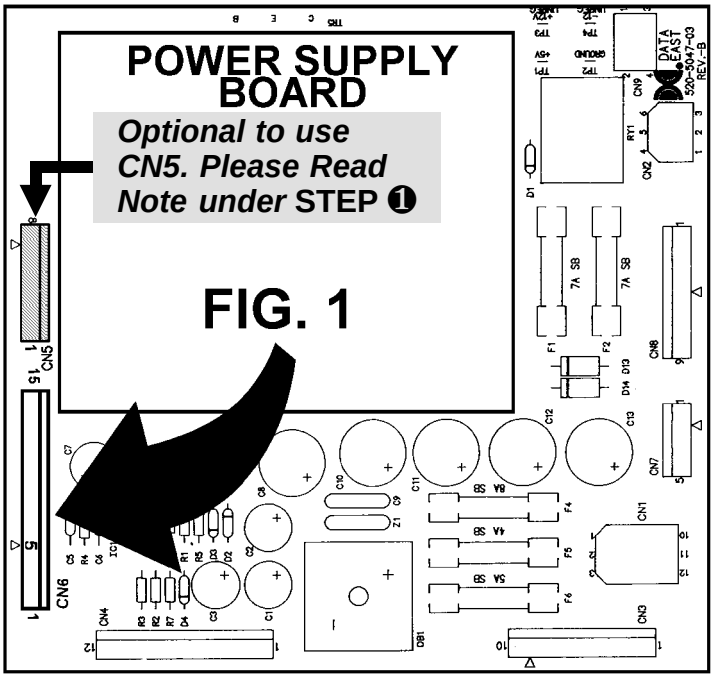
The **Large Dot Matrix Display (192 X 64) Board** (520-5075-00) **may** *Blank-Out* and/or *Resets* intermittently. *In normal operation, do not confuse a momentary "blank" screen inbetween completed functions in the Attract Mode, Game Play and Diagnostics (Portals™ Service Menu).* Our **Display Controller Board** (for 192 X 64 Dot Matrixes) (520-5092-01) utilizes a 68000 Micro Processor which runs at 12Mhz. It **"likes"** its' 5 volts to be **"5 VOLTS"** or darn near close. One of the things that typically happens with *older (aging)* equipment is they begin to develop *"bad connections"* and Power Supply Lines tend to *drop more voltage*, leaving *less power available* for the device it's running.

We have developed the **Large Dot Display (192 X 64) Optional Enhancement Cable Wiring Harness Update Kit (500-6326-00)** to improve the efficiency with which the harness supplies current & voltage to the **Dot Matrix Display Board (192 X 64)** and the **Display Controller Board**, thus eliminating the ***Blanking and/or Resetting problem*** due to *old age* and/or *bad connections*.

This "kit" takes less than ten minutes to install and is very inexpensive. We highly recommend using this "kit" if you have one of the aforementioned symptoms.

The **Large Dot Display (192 X 64) Optional Enhancement Cable Wiring Harness Update Kit** (SPI Nº: 500-6326-00) is ***now available*** for your purchase. ***This kit (assembled Cable Wiring Harness) contains:***

- ❍ 5' 18g Red Wire (looped)
- ❍ 5' 18g Black Wire (looped)
- ❍ 5-Pin IDC .156 Hdr. Molex Connector (both wire ends terminated @ Pins-1 & -3, Keyed @ Pin-2)
- ❍ Wire Ties (4 ea. to keep wires neat)
- ❍ This Service Bulletin Nº 106 (Explanation & Procedure)



Procedure ⚡ (When performing installation ensure game is powered off!)

STEP ❶ Locate the Connector at **CN6** on the **Power Supply Board** (520-5047-03) (See **Fig. 1**) and remove from the board. You will notice at **Pin-1** and **Pin-10** that there are no wires connected.

PLEASE NOTE: For **Cut the Cheese**/**Sega Sports**, you *may have to* use **CN5**, **Pin-2** for **Black Wire** (Gnd) & **Pin-8** for **Red Wire** (+5v) in lieu of **CN6, Pin-1** & **Pin-10** if there are existing wires at these 2 Pin locations.

Continued Next Page.

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Procedure Continued

STEP ❷ Take the ***NEW Cable Wiring Harness*** (500-6326-00) to **PREPARE** to **connect** or **terminate** the *looped ends* into the Connector from **CN6**. You will be ***connecting*** (terminating) the *looped end* of the **Black Wire** (Ground) to **Pin-1** and ***connecting*** (terminating) the *looped end* of the **Red Wire** (+5 volts) to **Pin-10** (See **Figs. 2A & 2B**).

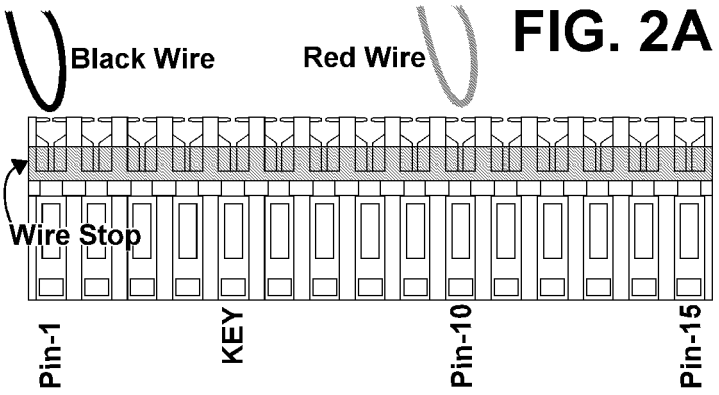

FIG. 2A

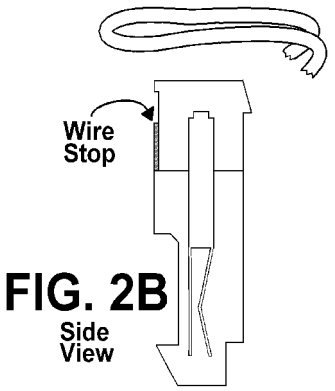

FIG. 2B

***Optional to use CN5. Please Read Note under* STEP ❶**

STEP ❸ To **connect** (terminate) the looped end of the wires, you **1ST** must remove the plastic **Wire Stop** on the Connector (*removed from CN6*) at **Pin-1** & **Pin-10**. ⚠ Carefully cut the **Wire Stop** out with a razor knife at **Pin-1** and **Pin-10** (See **Fig. 3**).

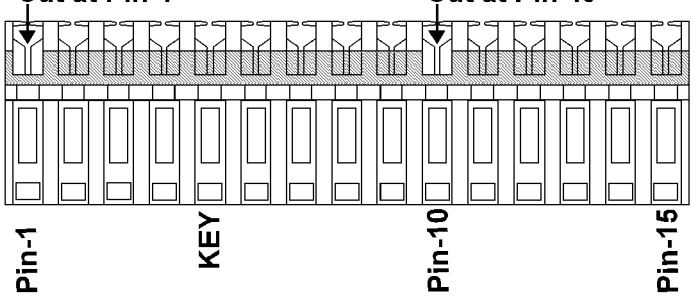

FIG. 3

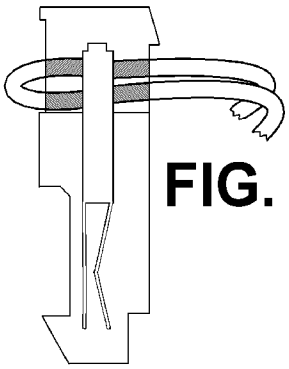

FIG. 4

STEP ❹ With a MRT-Hand Tool (or a screwdriver), you can now ***punch down*** (terminate the connection) the *looped end* of the **Black Wire** (Gnd) to **Pin-1** and ***punch down*** (terminate the connection) the *looped end* of the **Red Wire** (+5 volts) to **Pin-10** (See **Fig. 4**).

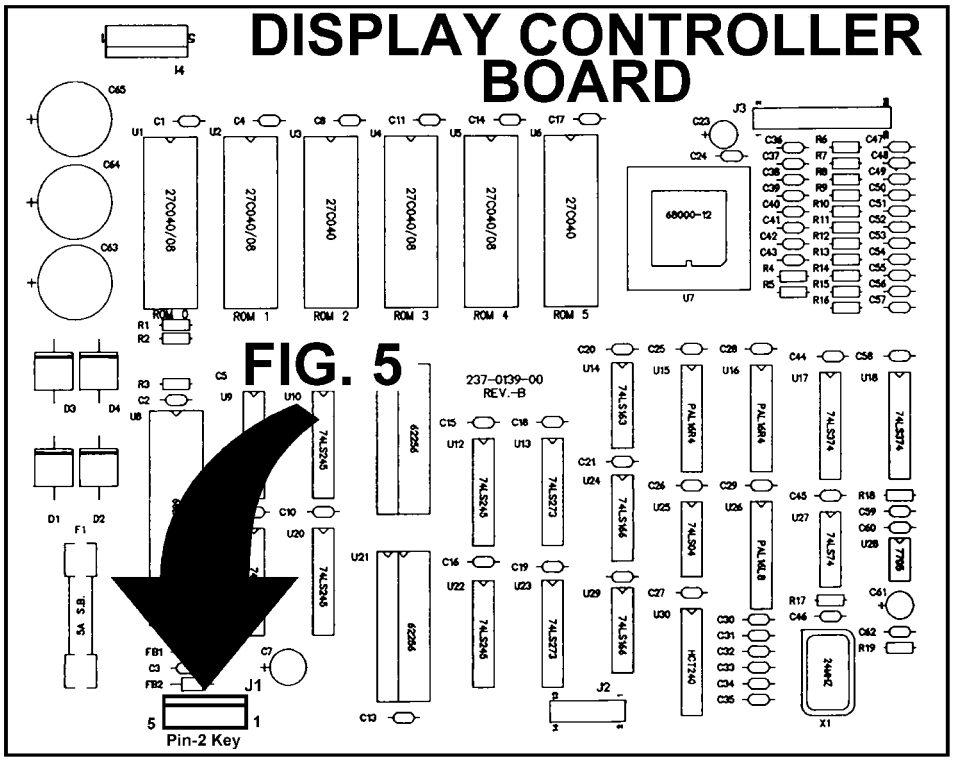

FIG. 5

STEP ❺ Locate the Connector at **J1** on the **Large Dot Display Controller Board** (located behind the **Lg. Dot Display Bd**) (See **Fig. 5**) and remove from the board. ***This Connector will no longer be used.*** *Tie back & tape-off* **or** *cut the IDC Connector off, tape-off the ends and tie these* ***now unused*** *wires back.*

With the ***NEW* Cable Wiring Harness Red & Black Wire** looped ends now connected into **Pin-1** & **Pin-10** in **CN6** on the Power Supply Board, dress the **Red & Black Wires** with the **5-Pin IDC Connector** down to the Display Controller Board.

Connect the ***NEW* Cable Wiring Harness 5-Pin IDC Connector end** onto **J1** (Keyed at Pin-2). The doubled **Black Wire** (Ground) is connected at **Pin-3** and the doubled **Red Wire** (+5v) is connected at **Pin-1**.

Any questions or concerns please contact Technical Support at the below numbers.

(S.B. 106 Revised, original date 4/20/98)

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