

Service Bulletin N° 106



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TO: Parts & Service Managers

For :

DATE: June 2, 1998

SUBJ: Large Dot Display (192 X 64)
Optional Enhancement
Cable Wiring Harness
Update Kit
(ask for SPI N° 500-6326-00)



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.

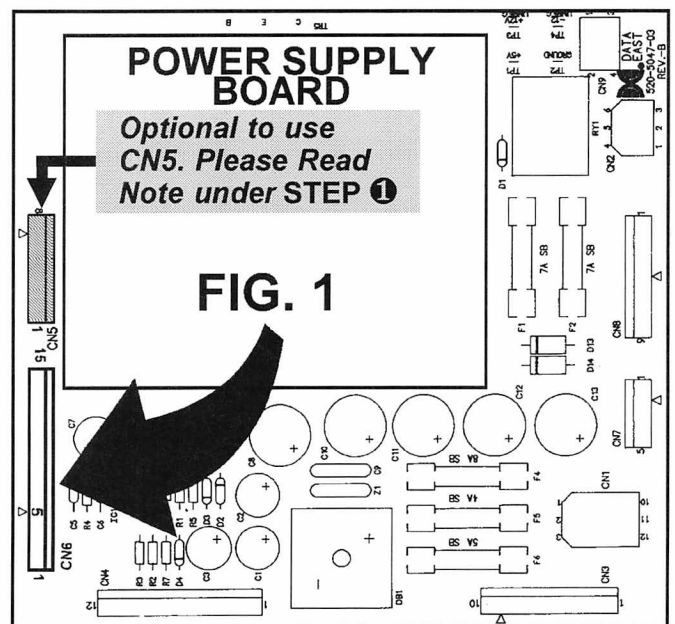
The Large Dot Display (192 X 64) Optional Enhancement Cable Wiring Harness Update Kit (SPI N°: 500-6326-00) is now available for your purchase. This kit (assembled Cable Wiring Harness) contains:

- 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 N° 106 (Explanation & Procedure)

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

STEP 1 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.

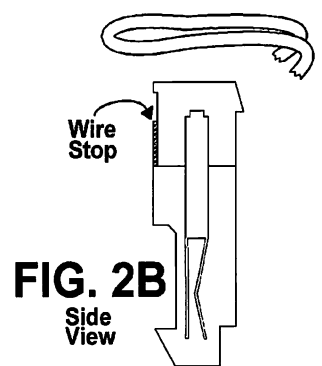
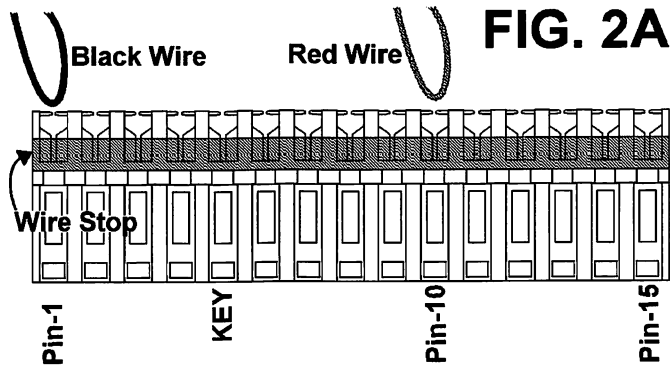


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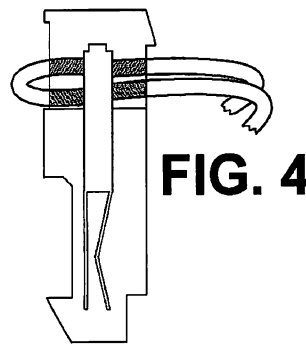
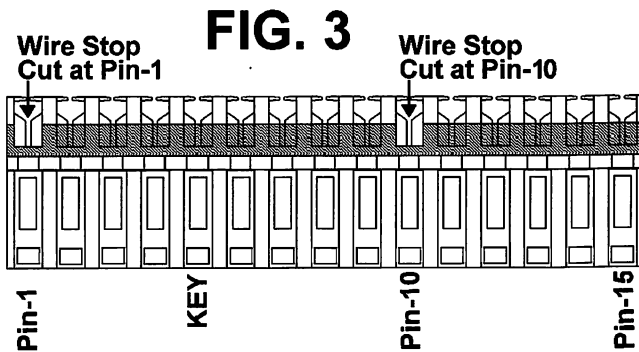
Procedure Continued

STEP 2 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).

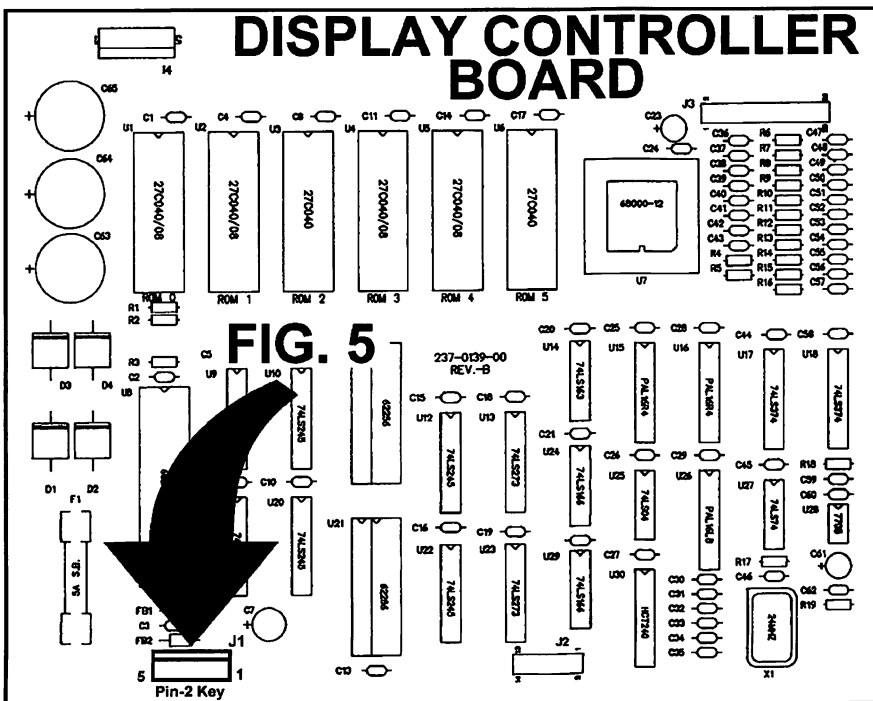


Optional to use CN5. Please Read Note under STEP 1

STEP 3 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).



STEP 4 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).



STEP 5 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.

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