

VRX Company

Inc.

Application Note:

Adapter_Cable_Micros

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Abbreviations and Phrases

ASCII	American Standard Code for Information Interchange
S-Video splitter	A “Y” cable with two female Mini Din and one male Mini Din connections.
Parallel LCD	The customer display integrated on to the front of the Micros POS work station. This display is facing the customer. This display does not have a serial data interface, it does however share some connections with the serial bus for the external pole display. The installation of the Parallel LCD display is mutually exclusive with the external pole display
Pole Display	Usually an RS232 serial text display device with two lines of 20 characters. Common types are LCD and Vacuum Florescent.
Pole Display, Micros External	A proprietary pole display for Micros POS connected through a Mini Din. The connections include Power, ground and TTL level serial data.
POS	Point of Sale
RS232 Serial	A standard specifying both the formate of data, asynchronous serial , and the electrical interface. RS232 signals are also known as COM ports. There are many non standard implementations still loosely referred to as RS232 Serial. For the data lines, logical 1 is a negative voltage and logical 0 is a positive voltage.
TTL Level	Transistor to Transistor Logic, aka logic level. An engineering term describing the 0 to 5 volt electrical signals found on many electronic digital circuits. Logical 0 is a low voltage and logical 1 is a high voltage.

Table 1 Abbreviations used in this application note

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Send email to: support@vrxinc.com.

Summary

The objective of this document is to show how to use the VRX Company Adapter_Cable_Micros with and with out a Mini Din Splitter Cable and to show how to navigate the Diagnostic Utilities on the Micros work station to enable an external serial pole display.

IMPORTANT: The end user or the Micros support technician must take responsibility to set up the work station for an external serial pole display. The information provide in this document is a reference only. VRX Company cannot be responsible for documenting all of the possible situations an installer might encounter setting up the Micros software.

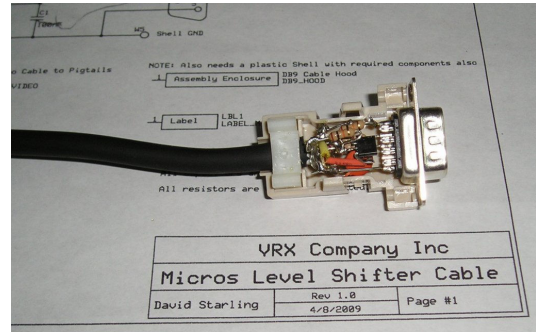


Figure 1: Adapter Cable Micros

Serial Connections, Other Considerations

A pole display is not actually required. All that is required is that the POS system be setup to provide data to the Text Inserter as if it was a pole display.



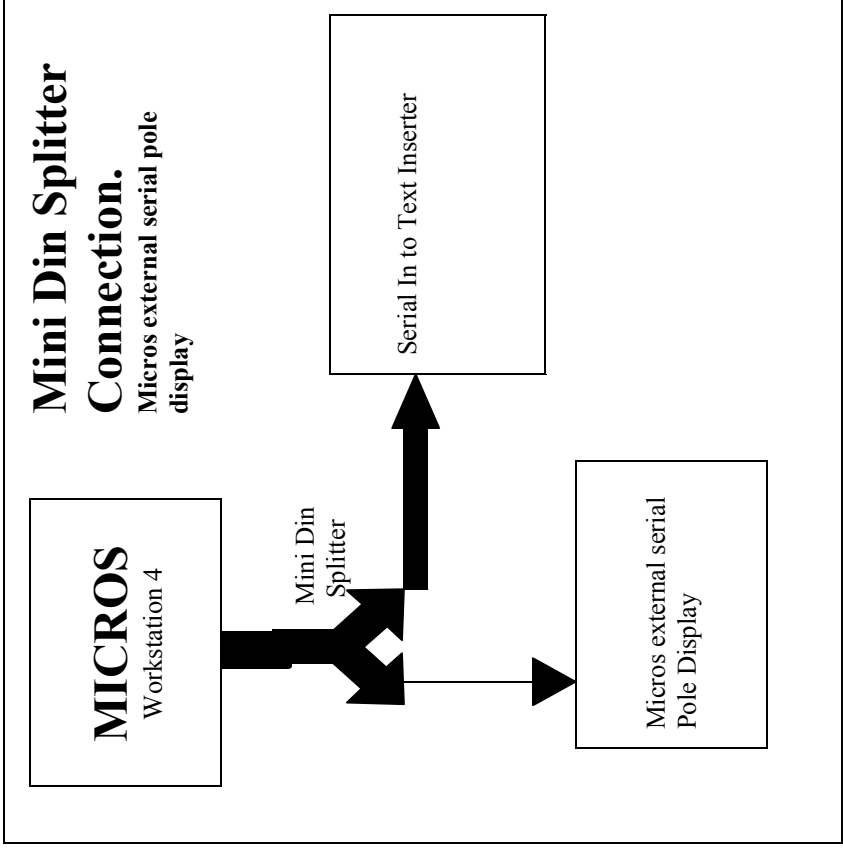
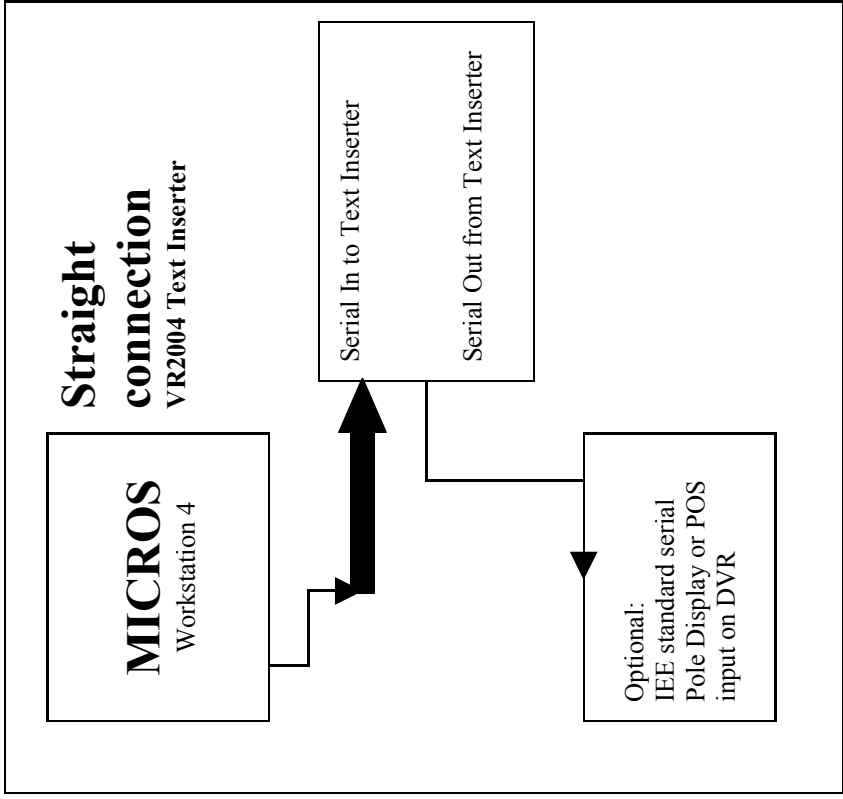
Figure 2: Mini Din Splitter Cable

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Straight Connection or Mini Din Splitter

VRX Company Adapter_Cable_Micros converts the TTL level signals at the MICROS external pole display connector to RS232 level for input to a text inserter. If in addition to the text inserter a Micros external pole display is to be used, then a Mini Din splitter cable splitter cable is required.

The two wiring situations look like this:



Locate External Serial Port Connection on POS

The Mini Din connector for the external serial port Pole Display is located near the power cord. There is a pole display icon just above the connector which is, unfortunately, not visible in this photo.

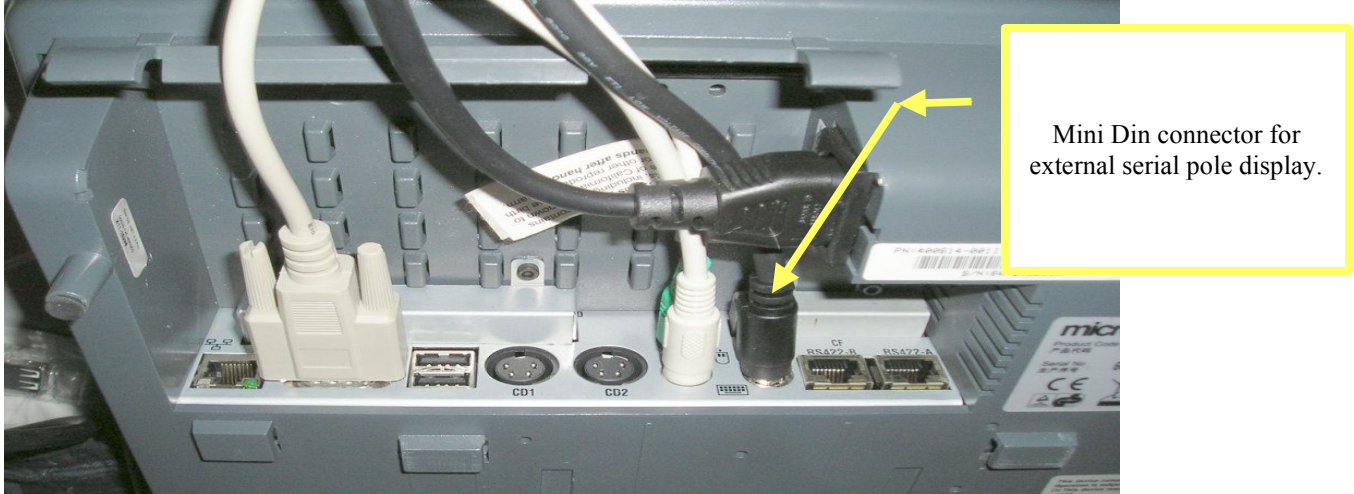


Figure 3 Pole display on serial output of POS.

Straight Connection, Adapter_Cable_Micros

If the Micros Mini Din pole display is not required, the installer can connect the VRX Company Adapter_Cable_Micros directly from the POS to the Text Inserter at the Serial Input.

A standard IEE pole display may be connected to the Serial Output of the Text Inserter.

With appropriate cables and special VRX Company adapters the Serial Output may also be connected to the POS input of DVRs. Contact the VRX Company for further details.

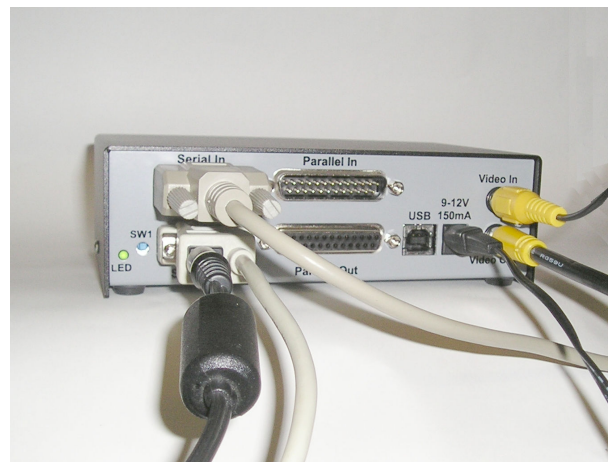


Figure 4 Adapter_Cable_Micros to Serial In. DB9 Pole Display on Serial Out.

Mini Din Splitter for Micros Pole Display Cabling

Connect Splitter and test Pole Display

Disconnect the pole display from the serial port. Connect the single male end of the Mini Din splitter to the Pole Display serial port.

Connect one of the female Mini Din ends to the Micros External pole display .

Test the pole display for normal operation and resolve any problems before proceeding.

Connect to the last female Mini Din splitter to the Adapter_Cable_MICROS which then connects to the Serial Input of the text inserter.

Again test the POS for normal operation of the pole display.

Observe a Monitor on the Video Out of the text inserter for text.

With appropriate cables and special VRX Company adapters the Serial Output may also be connected to the POS input of DVRs. Contact the VRX Company for further details.

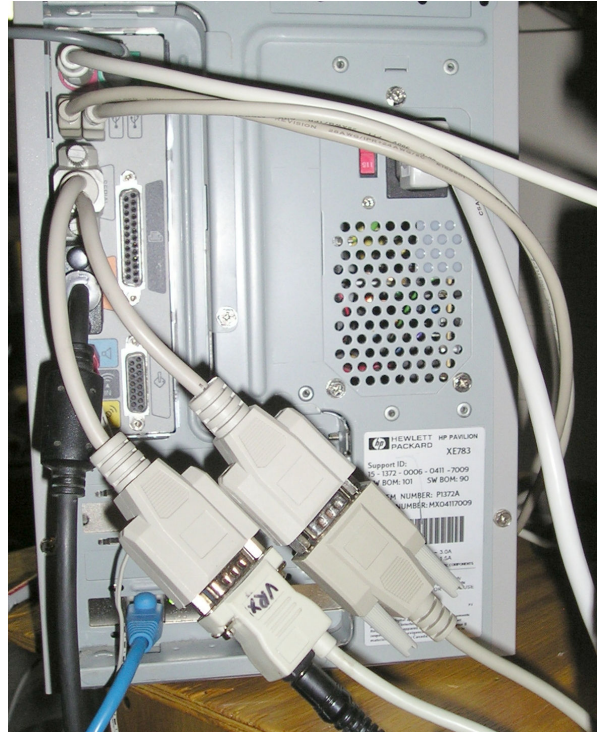


Figure 5 Mini Din splitter. Micros External Pole display and Adapter_Cable_Micros connected.

Finish the Other Connection to Connect Text Inserter

If necessary, connect the camera video to the Video In port and connect the Video Out port to the video in of a Monitor / DVR. Apply power to the Text Inserter with a wall transformer or a USB cable. The text inserter should display the ASCII data sent to it.

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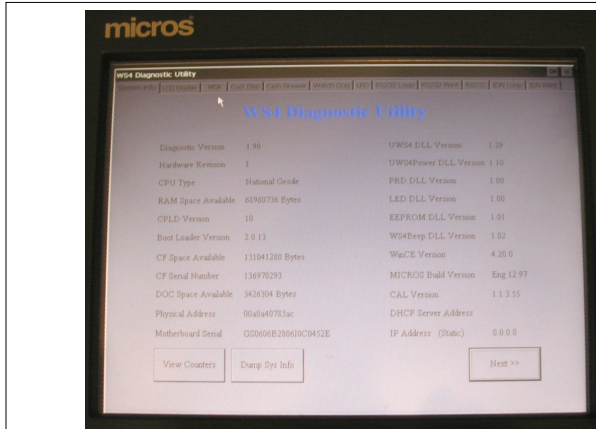
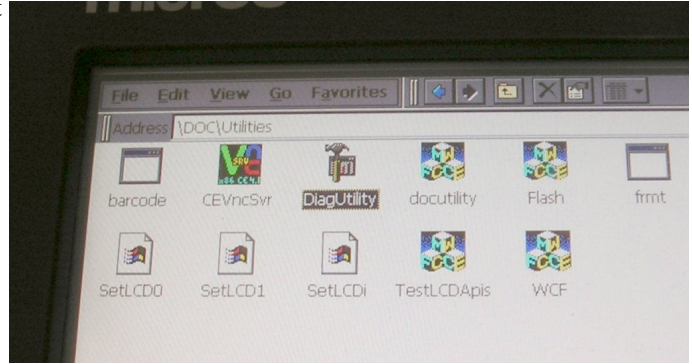
Setup MICROS for External Pole Display

If the POS did not have an external pole display connected, it may be necessary to use the MICROS Diagnostic Configuration software to configure the external serial pole display.

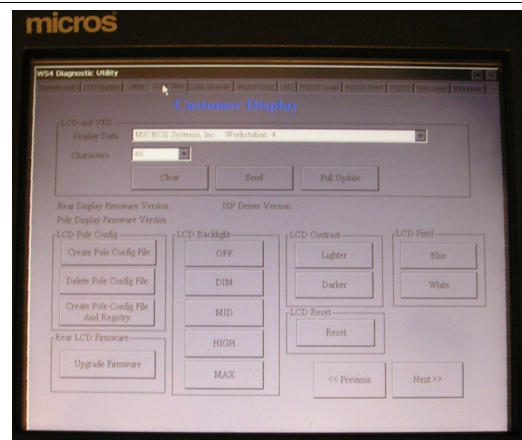
Connect a PS2 key board and PS2 mouse to the appropriate connectors on the Micros work station.

Apply power to boot the work station. Press <Alt> <Tab> and select exit to leave the POS application. Mouse to the Start menu. Go to Programs, Windows Explorer and open Windows Explorer.

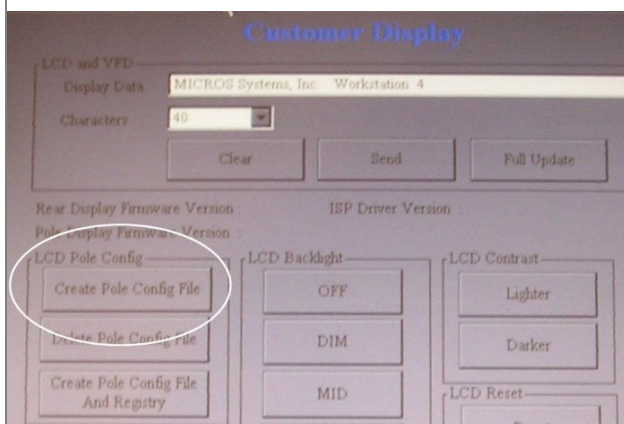
Navigate to the \DOC\Utiles folder. Select and run the program **DiagUtility**



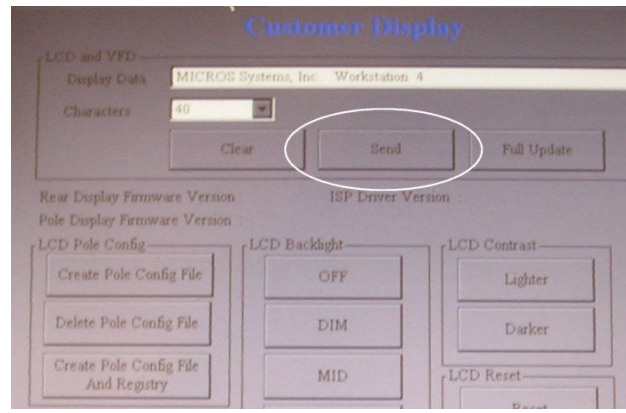
The Diagnostic Utilities will open to a main page.



Select the tab for the customer display.



Press the button, **Create Pole Config File**.



Test the pole display and Text Inserter by pressing the button, **Send**.

Exit the Diagnostic Utility and power cycle the POS to return to normal operation. Perform normal transactions to confirm proper operation of the external pole display and the Adapter Cable Micros to the Text Inserter.

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Send email to: support@vrxinc.com.

Having trouble?

If you are having compatibility trouble with the POS system and your Text Inserter, please look for updated information on our web site at www.vrxinc.com

Contact the VRX Company Inc at support@vrxinc.com or by calling 1-865-805-2437.

Snail Mail at: VRX Company Inc. PO Box 4663, Maryville, TN 37802-4663

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