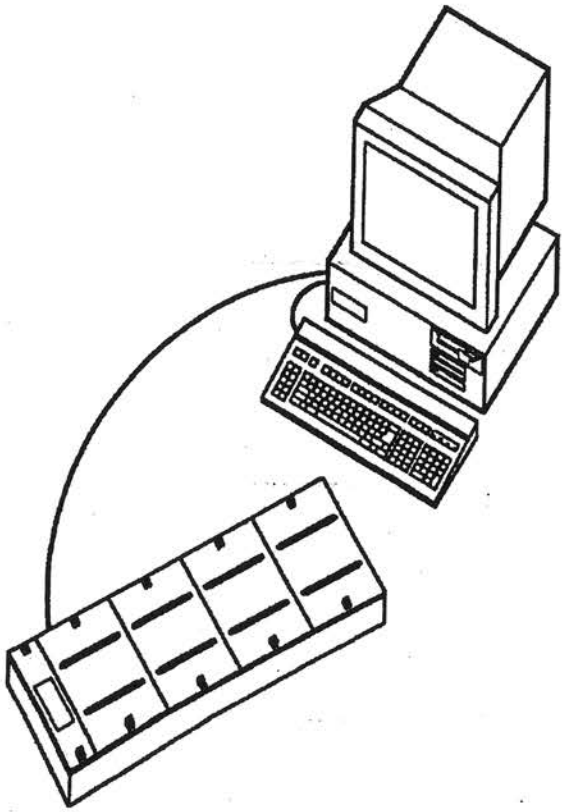
Cirris Signature 5000 Cable Analyzer



Performance Verification Manual

Version 1.0
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CIRRIS

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Signature 5000 Performance Verfication Kit

What is this document?

This manual explains how to use the Performance Verification Kit to make sure that your Cirris Signature 5000 Cable Analyzer is operating properly.

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The Signature 5000 Performance Verification Kit

What you'll need

To verify that your Signature 5000 is operating correctly, you'll need the items shown in this table.

Item	Description/Explanation
Cirris Signature 5000 Cable Analyzer	This is the cable analyzer you're about to check for correct operation.
Power cord with wall transformer	The transformer plugs into a standard wall outlet to provide power to the analyzer.
IBM-compatible personal computer (PC).	The computer lets you control the analyzer, and displays all prompts and test results.
Serial port interface cable	You'll use this cable to connect the Signature 5000 to your personal computer.
Test adapter with 22 K ohm resistance **Note:** Adapters with 100 K ohm resistance have been built as special-order items.	This is the test adapter you'll connect to the analyzer as you go through the performance verification procedure.
Cirris Signature 5000 Performance Verification Manual.	This is the manual you're reading.

How to Set Up for the Performance Verification Test

When to use

Use this procedure to set your Cirris Signature 5000 system up for performance verification testing.

Important!

This procedure applies to a one-box Signature 5000 system. If your system has more than one box, you must verify the operation of each box separately.

Procedure

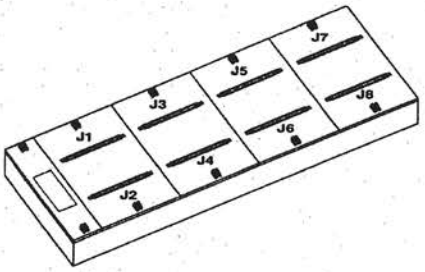
Step	Action/Explanation
1	Turn on your personal computer (PC).
2	Connect the Signature 5000 to your personal computer using the serial port interface cable. **Note**: You should connect one end of the serial interface cable to your computer's serial port. Connect the other end of the cable to the port on the back of the Signature 5000 marked "TO PC SERIAL PORT OR NEXT LOWER BOX."
3	Connect the terminator to the Signature 5000.
4	Plug the wall transformer into a standard outlet, and the power cord into the Signature 5000.
5	Place the floppy disk containing the 5000 system software in the floppy disk drive, then load the software by typing SIG **Enter** at the DOS prompt.

How to Begin the Performance Verification (Test for No Connections)

When to use

Use this procedure to make certain that the test points in your Signature 5000 have no unintended connections between them.

Procedure

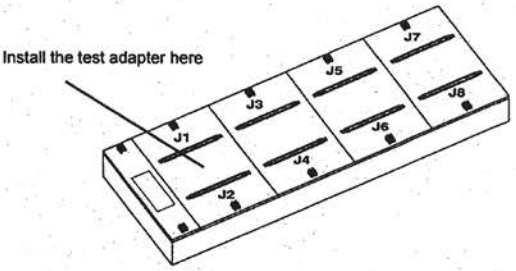
Step	Action/Explanation
1	Remove all adapters (and any other connections) from the connectors on the Signature 5000.  **Important!** Make sure that no adapters are installed in the 5000.
2	Select "LEARN W.LIST" from the submenu on the computer screen. **If** / **then** the computer displays **NO CONNECTS** — the Signature 5000 passes this test. the computer displays anything else — your Signature 5000 needs service.

How to Begin the Verification Test (J1 and J2)

When to use

Use this procedure to verify operation of the 5000 at connector position J1 J2.

Procedure

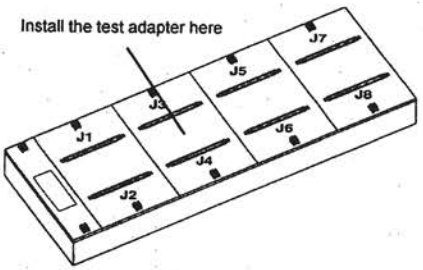
Step	Action/Explanation
1	Install the test adapter at connector positions J1and J2 on the analyzer as indicated. **Important!** Be sure to orient the adapter so that J1 on the adapter is plugged into J1 on the 5000. 
2	Select "LEARN W.LIST" from the submenu on the computer screen. **Result:** **If** / **then** the computer displays the signature **2DAE40** — the Signature 5000 passes this test. the computer displays any other signature — your Signature 5000 needs service.

How to Begin the Verification Test (J3 and J4)

When to use

Use this procedure to verify operation of the 5000 at connector positions J3 and J4.

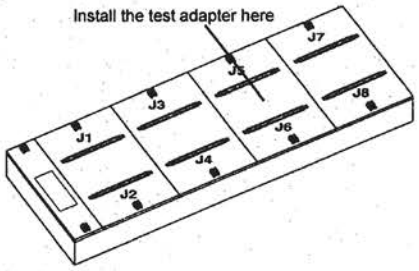
Procedure

Step	Action/Explanation
1	Install the test adapter at connector positions J3 and J4 on the analyzer as indicated. **Important!** Be sure to orient the adapter so that J1 on the adapter is plugged into J3 on the analyzer. 
2	Select "LEARN W.LIST" from the submenu on the computer screen. **Result:** **If** / **then** the computer displays the signature **89874E** — the Signature 5000 passes this test. the computer displays any other signature — your Signature 5000 needs service.

How to Begin the Verification Test (J5 and J6)

When to use Use this procedure to verify operation of the 5000 at connector positions J5 and J6.

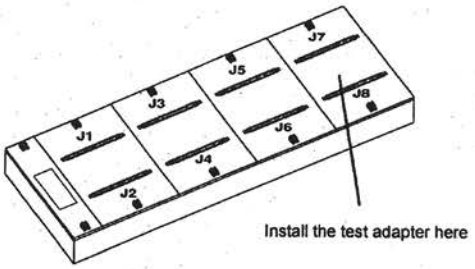
Procedure

Step	Action/Explanation
1	Install the test adapter at connector positions J5 and J6 as indicated. **Important!** Be sure to orient the adapter so that J1 on the adapter is plugged into J5 on the analyzer. 
2	Select "LEARN W.LIST" from the submenu on the computer screen. **Result:** **If** / **then** the computer displays the signature **1852F0** — the Signature 5000 passes this test. the computer displays any other signature — your Signature 5000 needs service.

How to Begin the Verification Test (J7 and J8)

When to use Use this procedure to verify operation of the 5000 at connector positions J7 and J8.

Procedure

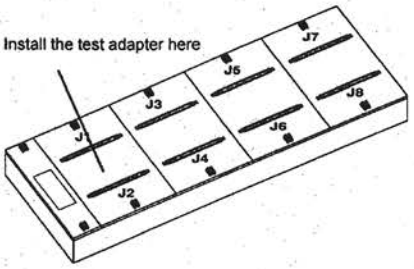
Step	Action/Explanation
1	Install the test adapter at connector positions J7 and J8 as indicated. **Important!** Be sure to orient the adapter so that J1 on the adapteris plugged into J7 on the analyzer. 
2	Select "LEARN W.LIST" from the submenu on the computer screen. **Result:** **If** / **then** the computer displays the signature **677C81** → the Signature 5000 passes this test. the computer displays any other signature → your Signature 5000 needs service.

How to Complete the Verification (J1 and J2)

When to use

Use this procedure to complete performance verification at connector positions J1 and J2.

Procedure

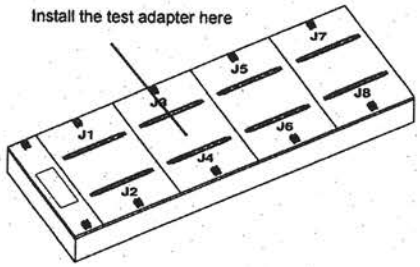
Step	Action/Explanation
1	Install the test adapter at connector positions J1 and J2 as indicated. **Important!** Be sure to orient the adapter so that J-1 on the test adapter is plugged into J2 on the analyzer. 
2	Select "LEARN W.LIST" from the submenu on the computer screen. **Result:** **If** / **then** the computer displays the signature **86FD14** — the Signature 5000 passes this test. the computer displays any other signature — your Signature 5000 needs service.

How to Complete the Verification (J3 and J4)

When to use

Use this procedure to complete performance verification at connector positions J3 and J4.

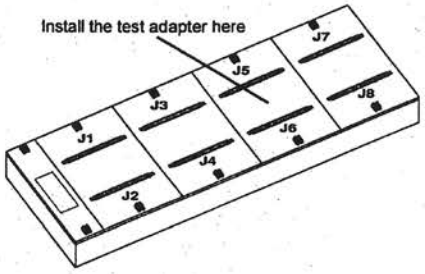
Procedure

Step	Action/Explanation
1	Install the test adapter at positions J3 and J4 as indicated. **Important!** Be sure to orient the adapter so that J1 on the test adapter is plugged into J4 on the analyzer. 
2	Select "LEARN W.LIST" from the submenu on the computer screen. **Result:** **If** / **then** the computer displays the signature **011394** — the Signature 5000 passes this test. the computer displays any other signature — your Signature 5000 needs service.

How to Complete the Verification (J5 and J6)

When to use Use this procedure to complete performance verification at connector positions J5 and J6.

Procedure

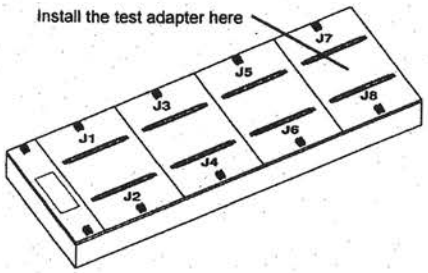
Step	Action/Explanation
1	Install the adapter at positions J5 and J6 as indicated. **Important!** Be sure to orient the adapter so that J1 on the test adapter is plugged into J6 on the analyzer. 
2	Select "LEARN W.LIST" from the submenu on the computer screen. **Result:** **If** / **then** the computer displays the signature **F6CC8F** — the Signature 5000 passes this test. the computer displays any other signature — your Signature 5000 needs service.

How to Complete the Verification (J7 and J8)

When to use

Use this procedure to complete performance verification at connector positions J7 and J8.

Procedure

Step	Action/Explanation
1	Install the test adapter at connector positions J7 and J8 as indicated. **Important!** Be sure to orient the adapter so that J1 on the test adapter is plugged into J-8 on the analyzer. 
2	Select "LEARN W.LIST" from the submenu on the computer screen. **Result:** **If** / **then** the computer displays the signature **85EDF2** — the Signature 5000 passes the test. the computer displays any other signature — your Signature 5000 needs service.

Conclusion

Did your analyzer pass or fail?

If	then
the Signature 5000 *passed* all of the tests in the series you've performed	your analyzer is operating properly. You can proceed to test cables as usual.
the Signature 5000 *failed* any of the tests in the series you've performed	your Signature 5000 needs service.

Does your Signature 5000 need service?

If you find that your Cirris Signature 5000 needs service, you should contact us at (801) 973-4600 or (800) 441-9910. If you'd like to reach is by fax, dial (801) 973-4609.