

Technical Note:

Performance Verification on the Cirris 1000LC Cable Analyzer

March 2005

CIRRIS[®]
Systems Corp.

Technical Note: Performance Verification on the Cirris 1000LC Cable Analyzer
March 2005

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Signature 1000LC Performance Verification

What is this document?

This document explains how to verify the correct performance of your Cirris 1000LC Cable Analyzer.

Overview

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What your Kit should Contain

What you'll need

Your 1000LC Performance Verification Kit should contain the items shown here.

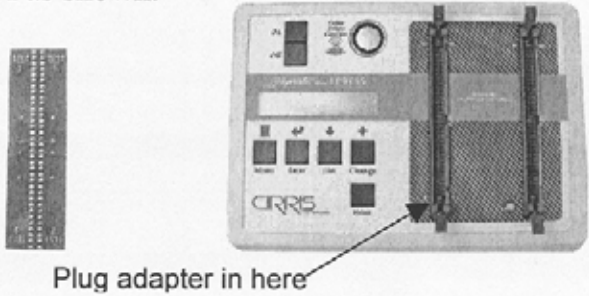
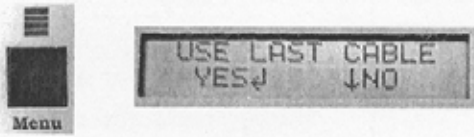
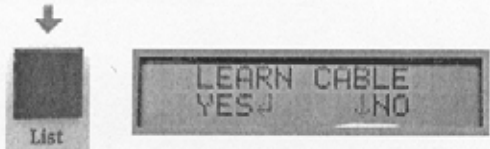
Item	Description
Signature 11000LC Cable Analyzer	This is your analyzer.
LC Performance Checkout Adapter (printed circuit board)	This is the test adapter you'll need to check out your analyzer.
Performance Verification Kit manual	This is the manual you are reading.



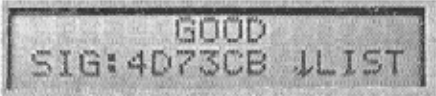
Connector JA Verification Test 1

When to use

This procedure is the first you'll use to verify that your Cirris Signature 1000LC Cable Analyzer is function properly.

Procedure

Step	Action/Explanation
1	<p>Plug the test adapter (with TEST 1 facing upward) into connector JA as shown.</p> <div data-bbox="857 766 1442 1060">  <p>Plug adapter in here</p> </div>
2	<p>Plug the transformer into the wall outlet (and the analyzer), and turn the analyzer on.</p>
3	<p>Press the MENU when the display shows the USE LAST CABLE screen.</p> <p>Note: If you've already turned your analyzer off, you can reach the same point by simply turning the unit on.</p> <div data-bbox="792 1365 1263 1501">  </div>
4	<p>Press the list key once to bring up the LEARN CABLE screen.</p> <div data-bbox="792 1648 1279 1795">  </div>

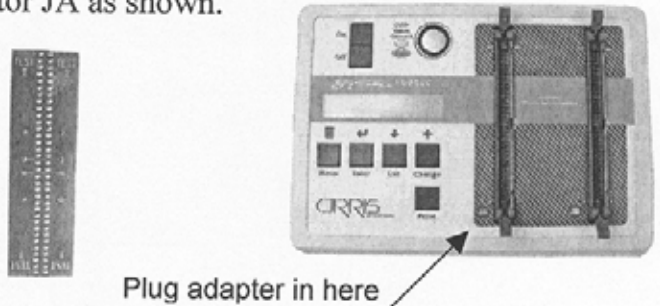
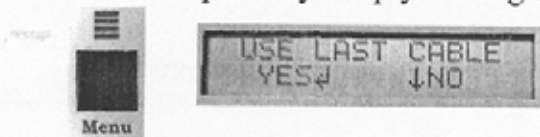
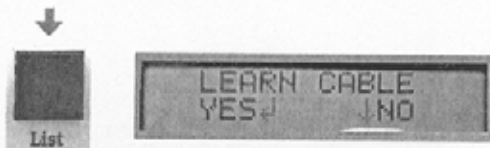
Step	Action/Explanation						
5	<p data-bbox="391 363 1312 453">Press the ENTER key to begin learning the test adapter connected to the analyzer.</p> <p data-bbox="391 506 1317 737">Result: The display will show LEARNING CABLE for several seconds, and the analyzer will make four beeping (“success”) sounds. The display will then change to SIG: 4D73CB TEST LIST with a blinking prompt</p> <div data-bbox="805 705 891 856" data-kind="parent" data-rs="3">  </div> <div data-bbox="651 888 1084 989">  </div> <div data-bbox="651 1014 1084 1108">  </div>						
6	<table border="1" data-bbox="391 1262 1333 1703"> <thead> <tr> <th data-bbox="391 1262 862 1314">If</th><th data-bbox="862 1262 1333 1314">then</th></tr> </thead> <tbody> <tr> <td data-bbox="391 1314 862 1503">The signature your analyzer displays is the same as the one shown in step 5</td><td data-bbox="862 1314 1333 1503">your analyzer passes this test.</td></tr> <tr> <td data-bbox="391 1503 862 1703">The signature your analyzer displays is not the same as the one shown in step 5</td><td data-bbox="862 1503 1333 1703">your analyzer fails this test. Contact Cirris Systems for assistance</td></tr> </tbody> </table>	If	then	The signature your analyzer displays is the same as the one shown in step 5	your analyzer passes this test.	The signature your analyzer displays is not the same as the one shown in step 5	your analyzer fails this test. Contact Cirris Systems for assistance
If	then						
The signature your analyzer displays is the same as the one shown in step 5	your analyzer passes this test.						
The signature your analyzer displays is not the same as the one shown in step 5	your analyzer fails this test. Contact Cirris Systems for assistance						
7	Turn the analyzer off.						

Connector JA Verification Test 2

When to use

This is the second procedure you should do as you verify the performance of your Cirris 1000LC Cable Analyzer.

Procedure

Step	Action/Explanation
1	<p>Plug the test adapter (with TEST 2 facing upward) into connector JA as shown.</p> 
2	<p>Plug the transformer into the wall outlet (and the analyzer), and turn the analyzer on.</p>
3	<p>Press the MENU when the display shows the USE LAST CABLE screen.</p> <p>Note: If you've already turned your analyzer off, you can reach the same point by simply turning the unit on.</p> 
4	<p>Press the list key once to bring up the LEARN CABLE screen.</p> 



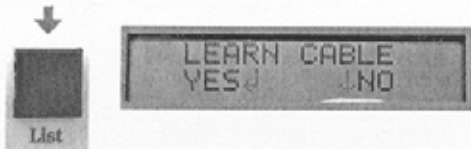
Step	Action/Explanation						
5	<p>Press the ENTER key to begin learning the test adapter connected to the analyzer.</p> <p>Result: The display will show LEARNING CABLE for several seconds, and the analyzer will make four beeping (“success”) sounds. The display will then change to SIG: AE643C TEST LIST with a blinking prompt</p> <div data-bbox="786 716 873 873" data-label="Image"> </div> <div data-bbox="604 905 1044 1005" data-label="Image"> </div> <div data-bbox="604 1031 1044 1131" data-label="Image"> </div>						
6	<table border="1"> <thead> <tr> <th data-bbox="407 1283 878 1335">If</th><th data-bbox="878 1283 1354 1335">then</th></tr> </thead> <tbody> <tr> <td data-bbox="407 1335 878 1524">The signature your analyzer displays is the same as the one shown in step 5</td><td data-bbox="878 1335 1354 1524">your analyzer passes this test.</td></tr> <tr> <td data-bbox="407 1524 878 1724">The signature your analyzer displays is not the same as the one shown in step 5</td><td data-bbox="878 1524 1354 1724">your analyzer fails this test. Contact Cirris Systems for assistance</td></tr> </tbody> </table>	If	then	The signature your analyzer displays is the same as the one shown in step 5	your analyzer passes this test.	The signature your analyzer displays is not the same as the one shown in step 5	your analyzer fails this test. Contact Cirris Systems for assistance
If	then						
The signature your analyzer displays is the same as the one shown in step 5	your analyzer passes this test.						
The signature your analyzer displays is not the same as the one shown in step 5	your analyzer fails this test. Contact Cirris Systems for assistance						
7	Turn the analyzer off.						

Connector JB Verification Test 1

When to use

This procedure is the first you'll use to verify that your Cirris Signature 1000LC Cable Analyzer is function properly.

Procedure

Step	Action/Explanation
1	<p>Plug the test adapter (with TEST 1 facing upward) into connector JB as shown.</p> <div data-bbox="824 783 1430 1066">  </div>
2	<p>Plug the transformer into the wall outlet (and the analyzer), and turn the analyzer on.</p>
3	<p>Press the MENU when the display shows the USE LAST CABLE screen.</p> <p>Note: If you've already turned your analyzer off, you can reach the same point by simply turning the unit on.</p> <div data-bbox="800 1371 1255 1503">  </div>
4	<p>Press the list key once to bring up the LEARN CABLE screen.</p> <div data-bbox="800 1650 1268 1797">  </div>

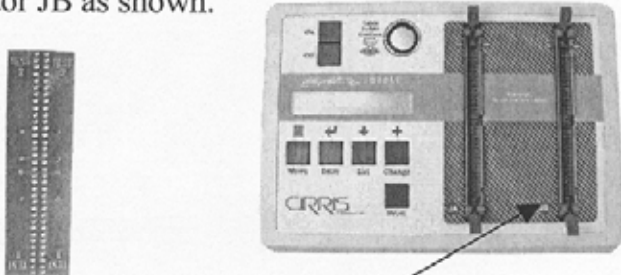

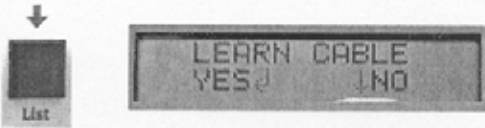
Step	Action/Explanation						
5	<p>Press the ENTER key to begin learning the test adapter connected to the analyzer.</p> <p>Result: The display will show LEARNING CABLE for several seconds, and the analyzer will make four beeping (“success”) sounds. The display will then change to SIG: A0CC0E TEST LIST with a blinking prompt</p> <div data-bbox="857 722 948 890" data-label="Image"> </div> <div data-bbox="695 919 1156 1024" data-label="Image"> </div> <div data-bbox="695 1050 1156 1155" data-label="Image"> </div>						
6	<table border="1"> <thead> <tr> <th data-bbox="396 1314 889 1369">If</th><th data-bbox="889 1314 1386 1369">then</th></tr> </thead> <tbody> <tr> <td data-bbox="396 1369 889 1575">The signature your analyzer displays is the same as the one shown in step 5</td><td data-bbox="889 1369 1386 1575">your analyzer passes this test.</td></tr> <tr> <td data-bbox="396 1575 889 1780">The signature your analyzer displays is not the same as the one shown in step 5</td><td data-bbox="889 1575 1386 1780">your analyzer fails this test. Contact Cirris Systems for assistance</td></tr> </tbody> </table>	If	then	The signature your analyzer displays is the same as the one shown in step 5	your analyzer passes this test.	The signature your analyzer displays is not the same as the one shown in step 5	your analyzer fails this test. Contact Cirris Systems for assistance
If	then						
The signature your analyzer displays is the same as the one shown in step 5	your analyzer passes this test.						
The signature your analyzer displays is not the same as the one shown in step 5	your analyzer fails this test. Contact Cirris Systems for assistance						
7	Turn the analyzer off.						


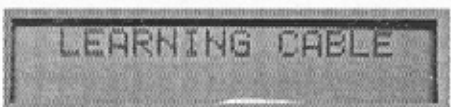

Connector JB Verification Test 2

When to use

This is the second procedure you should do as you verify the performance of your Cirris 1000LC Cable Analyzer.

Procedure

Step	Action/Explanation
1	<p>Plug the test adapter (with TEST 2 facing upward) into connector JB as shown.</p>  <p>Plug adapter in here</p>
2	<p>Plug the transformer into the wall outlet (and the analyzer), and turn the analyzer on.</p>
3	<p>Press the MENU when the display shows the USE LAST CABLE screen.</p> <p>Note: If you've already turned your analyzer off, you can reach the same point by simply turning the unit on.</p> 
4	<p>Press the list key once to bring up the LEARN CABLE screen.</p> 

Step	Action/Explanation						
5	<p>Press the ENTER key to begin learning the test adapter connected to the analyzer.</p> <p>Result: The display will show LEARNING CABLE for several seconds, and the analyzer will make four beeping (“success”) sounds. The display will then change to SIG: 048EAE TEST LIST with a blinking prompt</p> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div>						
6	<table border="1"> <thead> <tr> <th>If</th><th>then</th></tr> </thead> <tbody> <tr> <td>The signature your analyzer displays is the same as the one shown in step 5</td><td>your analyzer passes this test.</td></tr> <tr> <td>The signature your analyzer displays is not the same as the one shown in step 5</td><td>your analyzer fails this test. Contact Cirris Systems for assistance</td></tr> </tbody> </table>	If	then	The signature your analyzer displays is the same as the one shown in step 5	your analyzer passes this test.	The signature your analyzer displays is not the same as the one shown in step 5	your analyzer fails this test. Contact Cirris Systems for assistance
If	then						
The signature your analyzer displays is the same as the one shown in step 5	your analyzer passes this test.						
The signature your analyzer displays is not the same as the one shown in step 5	your analyzer fails this test. Contact Cirris Systems for assistance						
7	Turn the analyzer off.						

Conclusion

If the signatures matched...	If all of the signatures you analyzer displayed during the testing process matched those shown in this manual, your analyzer is in proper working order
If the signatures didn't match...	If any of the signatures you analyzer displayed during the testing process did not match those shown in this manual, your analyzer is not operating properly. It should be serviced.
How to contact us for assistance	If your analyzer is not operating properly, contact Cirris Systems Corporation at 1-800-441-9910 or 1-801-973-4600.
What's on the following pages?	The following pages are sample printouts. They show what the test results for each of the four verification tests should look like if you print them out.

JA TEST 1

SIGNATURE 1000LC CABLE DOCUMENTATION

CABLE SIGNATURE: 4D73CB CABLE PART NO.: _____

CABLE DESCRIPTION: _____

WIRE LIST:

NO. COMMON CONNECTIONS

1.	JA01	JA02	JA03	JA04	JA05	JA06	JA07	JA08
	JA09	JA10	JA11	JA12	JA13	JA14	JA15	JA16
	JA17	JA18	JA19	JA20	JA21	JA22	JA23	JA24
	JA25	JA26	JA27	JA28	JA29	JA30	JA31	JA32
2.	JA33	JA35	JA37	JA39	JA41	JA43	JA45	JA47
	JA49	JA51	JA53	JA55	JA57	JA59	JA61	JA63
3.	JA34	JA36	JA38	JA40	JA42	JA44	JA46	JA48
	JA50	JA52	JA54	JA56	JA58	JA60	JA62	JA64

NOTES: _____

JA TEST 2

SIGNATURE 1000LC CABLE DOCUMENTATION

CABLE SIGNATURE: AE643C CABLE PART NO.: _____

CABLE DESCRIPTION: _____

WIRE LIST:

NO. COMMON CONNECTIONS

1.	JA01	JA03	JA05	JA07	JA09	JA11	JA13	JA15
	JA17	JA19	JA21	JA23	JA25	JA27	JA29	JA31
2.	JA02	JA04	JA06	JA08	JA10	JA12	JA14	JA16
	JA18	JA20	JA22	JA24	JA26	JA28	JA30	JA32
3.	JA33	JA34	JA35	JA36	JA37	JA38	JA39	JA40
	JA41	JA42	JA43	JA44	JA45	JA46	JA47	JA48
	JA49	JA50	JA51	JA52	JA53	JA54	JA55	JA56
	JA57	JA58	JA59	JA60	JA61	JA62	JA63	JA64

NOTES: _____

JB TEST 1

SIGNATURE 1000LC CABLE DOCUMENTATION

CABLE SIGNATURE: A0CC0E CABLE PART NO.: _____

CABLE DESCRIPTION: _____

WIRE LIST:

NO. COMMON CONNECTIONS

1.	JB01	JB02	JB03	JB04	JB05	JB06	JB07	JB08
	JB09	JB10	JB11	JB12	JB13	JB14	JB15	JB16
	JB17	JB18	JB19	JB20	JB21	JB22	JB23	JB24
	JB25	JB26	JB27	JB28	JB29	JB30	JB31	JB32
2.	JB33	JB35	JB37	JB39	JB41	JB43	JB45	JB47
	JB49	JB51	JB53	JB55	JB57	JB59	JB61	JB63
3.	JB34	JB36	JB38	JB40	JB42	JB44	JB46	JB48
	JB50	JB52	JB54	JB56	JB58	JB60	JB62	JB64

NOTES:

JB TEST 2

SIGNATURE 1000LC CABLE DOCUMENTATION

CABLE SIGNATURE: 048EAE CABLE PART NO.: _____

CABLE DESCRIPTION: _____

WIRE LIST:

NO. COMMON CONNECTIONS

1.	JB01	JB03	JB05	JB07	JB09	JB11	JB13	JB15
	JB17	JB19	JB21	JB23	JB25	JB27	JB29	JB31
2.	JB02	JB04	JB06	JB08	JB10	JB12	JB14	JB16
	JB18	JB20	JB22	JB24	JB26	JB28	JB30	JB32
3.	JB33	JB34	JB35	JB36	JB37	JB38	JB39	JB40
	JB41	JB42	JB43	JB44	JB45	JB46	JB47	JB48
	JB49	JB50	JB51	JB52	JB53	JB54	JB55	JB56
	JB57	JB58	JB59	JB60	JB61	JB62	JB63	JB64

NOTES:

