

## Interpreting the tester's display

Display	Condition	Comment
SIG:XXXXXX-XXXX GOOD R<.XXΩ	Cable is good	Wirelist matches the sample cable. The cable is good. If a hipot voltage test has been set, the cable passed the hipot test. Remove cable to test another one.
SIG:XXXXXX-XXXX OPEN DETECTED	Cable has an open	Wirelist does <b>not</b> match that of the sample cable. The tester detected a missing connection. Press Display/Print to prompt the net(s) with error(s).
SIG:XXXXXX-XXXX SHORT DETECTED	Cable has a short	Wirelist does <b>not</b> match that of the sample cable. The tester detected shorted points. Press Display/Print to prompt net(s) with error(s).
SIG:XXXXXX-XXXX ERRORS DETECTED	Cable has a combination of errors	Wirelist does not match the sample cable. The tester detected a combination of opens, shorts, and/or miswires. Press Display/Print to prompt net(s) with error(s).
SIG:XXXXXX-XXXX BAD R>.XΩ	Cable has nets with high connection resistance	The tester has detected resistance higher than the Connection Resistance setting. Press Display/Print to prompt the net(s) with error(s).
SIG:XXXXXX-XXXX READY TO HIPOT	Tester is set for manual hipot testing	If the option AUTO HIPOT is set to OFF, the tester prompts "Ready to Hipot" after the low voltage tests pass. Press Function button to perform hipot test.
PASSED HIPOT TEST	Cable passed the hipot test	The cable is good, and has passed all tests. You will first see "Passed Hipot Test," then "SIG: XXXXXX-XXXX GOOD R<.XΩ." The tester is now scanning for intermittent until you unplug the cable.
Failed HIPOT TEST	Cable failed hipot test	The tester failed the hipot test. Press Display/Print to prompt the errors. There are three types of hipot failures: has leakage, dielectric fail, and over current. Refer to the manual for more details on each type of error.
SIG:XXXXXX-XXXX INTERMITTENT	Intermittent errors	The tester detected intermittent good then bad connections. Press Display/Print to prompt the type of error condition that has occurred. Press the Memory button to clear intermittent condition when doing rework or guided assembly.

## Interpreting an error list

This is an example of a typical printed error list. If a printer is not connected to the tester, an error list can still be created. Press the Display/Print button each time the tester detects an error. Then transcribe the information prompted in the tester's display.

J1 refers to the position of the adapter in the tester.

-02 refers to point #2 in the connector.

This is the net number, net #2.

CABLE ERROR SIGNATURE: EBF613-0706

2	J1-02	OPEN	J2-19
3	J1-03	OPEN	J2-18
4	J1-04	OPEN	J2-17
5	J1-05	SHORT	J2-16
6	J1-06	OPEN	J2-15

Since the cable has errors, the cable signature will not match the signature in the documentation. Instead, the tester prompts an "Error Signature."

J1-02 is open. It should be connected to J2-19.

Instead, J1-02 is miswired to J2-02.

This shows that in net #5 J1-05 is shorted to J2-16.

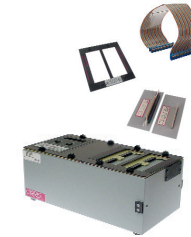
For further information, please contact Cirris Systems, 1-800-441-9910, or visit our Web site, [www.cirris.com](http://www.cirris.com).

## Preparing to Test

### Step 1: Preparing your test setup

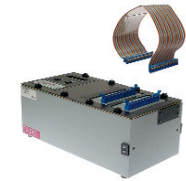
- A.** Set the option Create Test From to Sample Cable.
- B.** Turn off the tester, then:
  - (i.) Remove cover plate
  - (ii.) Install adapters
  - (iii.) Replace cover plate
  - (iv.) Connect sample cable
- C.** Turn on the tester and wait for the "Please Verify" prompt.
- D.** Remove the sample cable.
- E.** Display will read "Ready to Test."

**NOTE:** see "Setting and Changing Options" for further information.



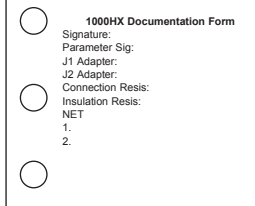
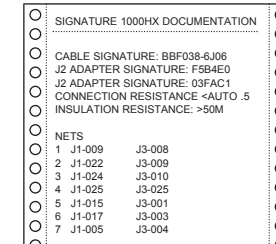
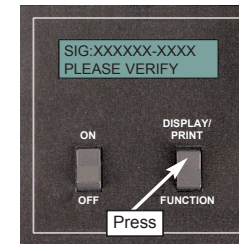
To verify the cable, press Display/Print:
 

- (i.) To identify adapters
- (ii.) To scroll through options
- (iii.) To scroll through the wirelist



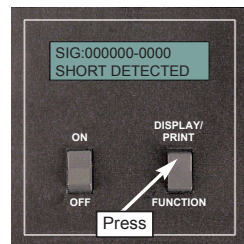
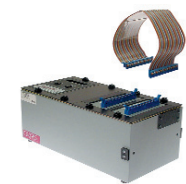
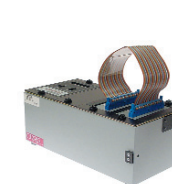
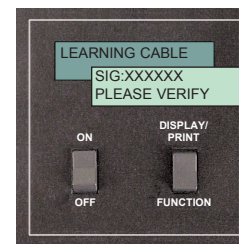
### Step 2: Documenting cables

- A.** Prepare test setup, learn sample cable as in Step 1.
- B.** When the prompt is "Please Verify," press Display/Print to show the cable documentation.
- Option 1:** If a printer is connected to the tester, the documentation prints automatically.
- Option 2:** If a printer is **not** connected to the tester, press Display/Print to prompt the wirelist. Copy the prompts to a blank documentation form.



### Step 3: Testing cables

- A.** Prepare test setup and verify cable as in steps 1 and 2.
- B.** Remove sample cable.
- C.** When prompt is "Ready to Test," connect new cable.
- D.** If cable is good, remove it, connect another cable to test.
- E.** If cable is bad, press Display/Print to locate the errors.



## Setting and changing test options

**A.** Press and hold in the Display/Print switch as your turn on the tester.

**B.** Release Display/Print when the tester prompts the first option.

**C.** Press Function once to change the option setting.

**D.** Press Display/Print once to see the next option.

**NOTE:** If you scroll past the desired option or setting, hold the memory button in while pressing display/print to back up.

## Test options and settings

Option as it Appears in Display	Range of Option Settings	Option as it Appears in Display	Range of Option Settings
CREATE TEST FROM SAMPLE CABLE	SAMPLE CABLE or LAST TEST SETUP or COMPLEX ASSEMBLY	SINGLE NET ERROR IS IGNORED	IS IGNORED or FAILS HIPOT
CONNECTION RESIS <XXΩ	AUTO†, CALC‡, 1Ω-100KΩ, 500KΩ, 1MΩ, 5MΩ	AUTO HIPOT OFF	ON or OFF
HIPOT VOLTAGE XXX V	OFF, 50, 100, 200, 300, 400, 500, 630, 800, 1k VDC	ERROR TONES HIGH	HIGH, LOW, or OFF
INSULATION RESIS >XXΩ	5MΩ, 10MΩ, 20MΩ, 50MΩ, 100MΩ, 200MΩ, 500MΩ	SORTED WIRELIST OFF	ON or OFF
HIPOT DURATION XX MS	10ms, 100ms, 1 sec, 2 sec, 5 sec, 10 sec, 30 sec, 1 minute	COUNT ALL CABLES OFF	ON or OFF
APPLY HIPOT TO ALL ADAPTER PINS	ALL ADAPTER PINS or CONNECTIONS ONLY	AUTO PRINT OFF	ON or OFF

†‡ See User Manual for explanations on how to use the AUTO and CALC settings.

## Using the tester's memory—Storing wirelists

**A.** Remove cable. Display will prompt "Ready to Test."

**B.** Press in and hold the Memory button, then press Display/Print.

**C.** Press Display/Print to get to next unused memory location.

**D.** Press Function to store wirelist in unused location.

**E.** Release the Memory button.

## Using the tester's memory—Retrieving wirelists

**A.** With tester off, install correct adapters but **DO NOT** attach a cable.

**B.** Press and hold the Memory button, then turn on the tester.

**C.** Press Display/Print to select desired wirelist in memory.

**D.** Release the Memory button.

**NOTE:** If the wrong adapters are in the tester, the tester will prompt the correct ones.

J1-1 ADAPTER SIG SHOULD BE XXXX-XXX

## Using the tester's memory—Deleting wirelists

**A.** Press and hold the Memory button as you turn on the tester.

**B.** Press Display/Print to select the wirelist in memory to be deleted.

**C.** Press and hold Function as you release the Memory button.

**D.** Release the Function button.