



# Tech Info Library

## EtherTalk Interface Card: General Troubleshooting (Part 2 of 2)

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### o TWO-CARD TEST

#### Materials Required:

MacTest II diskette  
Macintosh II  
Known-good EtherTalk Interface Card  
Terminator kit (077-0256)  
Thin Net Test Cable (077-0257)

#### Procedure:

1. If you are not using a known-good Macintosh II to test the EtherTalk Interface Card, start up MacTest II and run the logic, drive, and monitor tests. (See Section 3, Diagnostics, of the Macintosh II Technical Procedures.) Complete any needed repairs before you continue.
2. Turn the Macintosh II power off.
3. Put on your grounded wriststrap and set the EtherTalk Interface Card on the grounded workbench pad. Set the jumper on both EtherTalk Interface Cards for thin cable, and install the cards in the Macintosh II. (See the "Setting the Jumper", later in this article.)

NOTE: Record the slot numbers used by the card under test and by the known-good card. The slot numbers are 1 (which is next to the power supply) through 6 (which is farthest from the power supply).

4. Assemble and install the loopback cable as follows:
  - a) Select two T-connectors and two terminators from the terminator kit (Figure 2). For each T-connector, connect the female end of one terminator to one of the male ends on the T-connector.
  - b) Connect each end of the thin net test cable to the remaining male end on each T-connector.

c) Locate the male connector on each EtherTalk Interface Card. Join the remaining female connector on each T-connector to the connector on each card.

5. To start the diagnostic, insert the MacTest II diskette into drive one (right), and turn on the power. (For MacTest II operating instructions, see Section 3, Diagnostics, of the Macintosh II Technical Procedures.)

6. Select the two-card test as follows:

a) Pull down the Options menu and select Test Selections.

b) Click on the EtherTalk Interface Card check box until an X is displayed in the check box. In the box to the right of the test name, enter the expansion slot number for the card under test.

c) Click on the known-good card check box until an X is displayed in the check box. In the box to the right of the test name, enter the expansion slot number for the known-good card.

d) Click OK. (You may want to turn off all other tests to reduce testing time.)

7. Click on the Start button.

NOTE: If you did not install the loopback cable in Step 4, or if you did not install it properly, MacTest II displays a window asking you to install the connector. Turn the power off (to reset the EtherTalk Interface Card), install the loopback cable as described in Step 4, and continue this procedure at Step 5.

MacTest II runs until the test passes, or until a failure is detected. If the test fails, MacTest II displays a window with troubleshooting instructions. For additional information, see Section 3, Troubleshooting.

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#### o SETTING THE JUMPER

1. Locate the jumper and see if it is set for thick cable or thin cable.

2. If the jumper is set for thick cable, remove the jumper, and install it in the position for thin cable. (Do not forget to reset it before you return it to the customer.)

### Section 3      Troubleshooting

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#### o CONTENTS

- 3.1      Using the Flowchart
- 3.2      Troubleshooting Flowchart

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#### o USING THE FLOWCHART

The flowchart includes references to notes on this page. These notes provide

additional instructions or referrals to other procedures.

Starting at the top of the flowchart, answer the questions and proceed down the chart. When you arrive at a rectangular box containing a list of actions, perform the actions in the sequence listed. Upon completion of each action, test again to see if the action corrects the problem. If the problem remains, reinstall the original module before you go to the next action.

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o TROUBLESHOOTING FLOWCHART

1. Refer to Section 2, Diagnostics.
  2. If you suspect intermittent problems, repeat the test several times.
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