

RS232/PIO TESTS

When this option is selected and there is an RS232 card installed the following screen will be shown:

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RS232/PIO TESTS
1. RS232/1 TO PRINTER
2. RS232/2 TO PRINTER
3. RS232/1 LOOP TO RS232/2
4. PIO TO PRINTER

```

If no RS232 card is installed then the message NO RS232 CARD PRESENT will be displayed. In order to test a card if it is selected for RS232/3 and /4 you must reconfigure the card so that it functions as an RS232/1 and /2 card. You may cancel a test by pressing FNCT 4. The message "BAD DEVICE" will be displayed. Pressing FNCT 6 will then return you to the RS232 menu.

**1 - RS232/1 TO PRINTER**

This test allows for the selection of the following baud rates:

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1 - 110
2 - 300
3 - 600
4 - 1200
5 - 2400
6 - 4800
7 - 9600

```

The PDM TEST configuration is set to the standard TI default settings of 7 data, 1 stop, and Odd parity.

Install the printer cable between the RS232 card and the printer as you would normally do. While the test is in progress the message "PLEASE WAIT. TESTING" will be shown. In addition, the display will show the characters that are being transmitted through the port. The same characters should be printed. The following are the characters:

```

!"/$%&()*+,-./0123456789:;<=>?@ABCDEFGHIJKL
MNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~
!"/$%&()*+,-./0123456789:;<=>?@ABCDEFGHIJKL
MNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

```

2 - RS232/2 TO PRINTER

Same as RS232/1 TO PRINTER except you will need a Y-cable to get access to the second channel.

3 - RS232/1 LOOP TO RS232/2

This test requires that you install the LOOP-BACK plug onto the RS232 connector. This test will verify the operation of both RS232 ports without the use of a printer. The data from one port will be sent out and then received through the other port. The display will show the characters that are being received. The program will then verify that these are correct. If a problem is found then the error message INCORRECT DATA DETECTED will be displayed.

4 - PIO TO PRINTER

This test requires that a parallel printer is properly connected. The display will show the characters that are being sent out to the printer. The characters are the same as shown in the RS232/1 TO PRINTER section above.

IF PROBLEMS ARE FOUND

If you are using a TI Disk Controller Card you may notice that the characters that are being sent out to either the PIO or the RS232 are printed as both upper and lower case characters while only the upper case characters will be displayed on the screen. When using a CorComp Disk Controller both upper and lower case characters are displayed and printed.

If a problem is found during either test 1 or test 2 disconnect the printer cable and try the test again. If the test passes then there may be a problem with the cable to the printer. If the loop back test does not pass then there is most likely a problem with the RS232 card. There is still a chance that test 1 and 2 will pass without a printer connected while failing test 3. In this case there is a problem with the RS232 card.

If the system "hangs" during a test this indicates a problem and simply press FCTN 4 then FCNT 6 to return to the RS232 menu.