

***Hypertherm***<sup>®</sup>

***HD4070***

**PC-104 Test Kit**

Kit # 128648



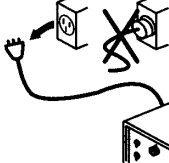
**Field Service Bulletin**  
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		<p><b>WARNING</b> ELECTRIC SHOCK CAN KILL</p>
<div style="display: flex; align-items: center; justify-content: center;">  <div style="margin-left: 20px;"> <p><b>Disconnect electrical power before performing any maintenance.</b> All work requiring removal of the power supply cover must be performed by a qualified technician.</p> <p><b>See <i>Section 1</i> of the Operator Manual for more safety precautions.</b></p> </div> </div>		

## Introduction

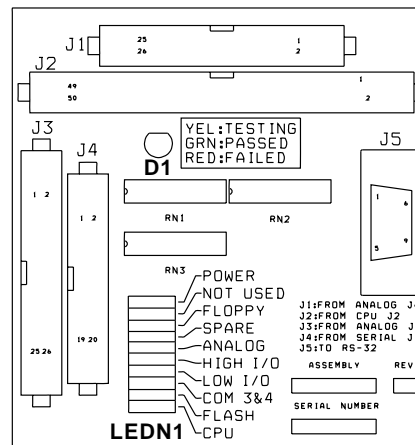
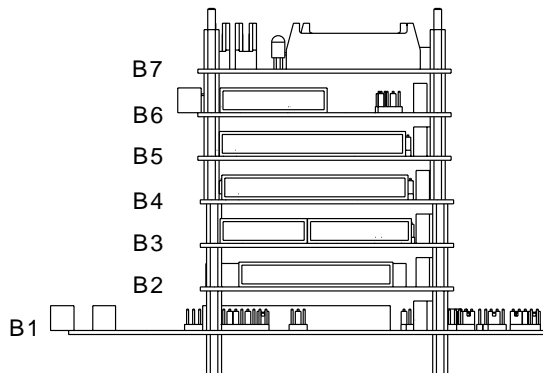
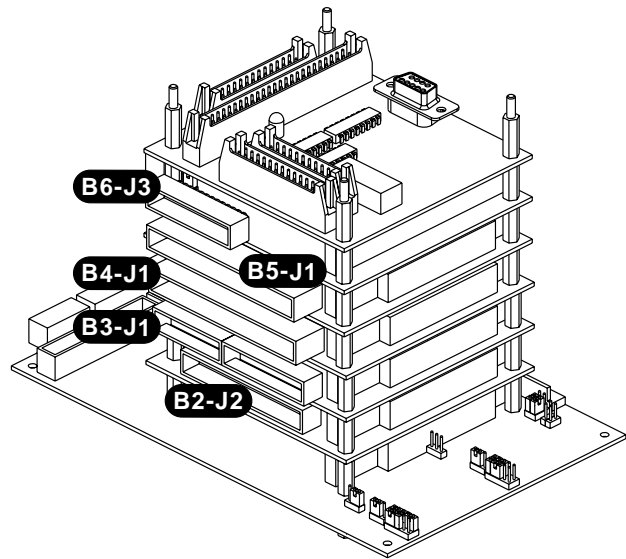
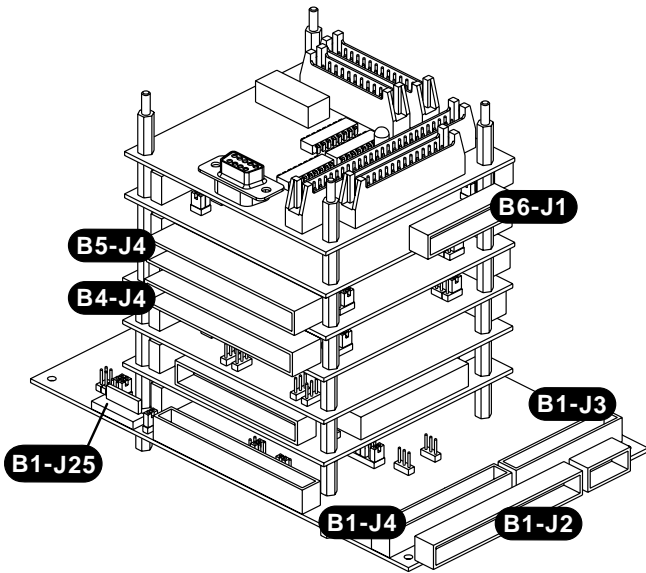
### Purpose

Describes necessary steps to run tests on the PC-104 stack.

### Kit Contents

Part Number	Description	Qty
081084	Disk: HD4070 firmware	1
123644	Ribbon Cable: 50/C (B4J4)	1
123643	Ribbon Cable: 50/C (B5J4)	1
123642	Ribbon Cable: 50/C (B7J2)	1
123641	Ribbon Cable: 20/C (B7J4)	1
123618	Ribbon Cable: 26/C (B7J3)	1
123617	Ribbon Cable: 50/C (B7J1)	1

PC-104 boards and connectors



Test Board: B7

PC-104 test procedure

1. Turn main power OFF.
2. Remove connectors from PC-104 stack in the following order:
  - Board 1 J4 - Remove for access. Reconnect after all other connections are made.
  - B1, J2
  - B3, J1
  - B4, J1 and J4
  - B5, J1 and J4
  - B6, J1 and J3
3. Make the following connections, using cables provided in this kit.
  - B3, J1 to B7, J4
  - B4, J1 to B4, J4
  - B5, J1 to B5, J4
  - B7, J3 to B6, J1
  - B6, J3 to B7, J1
  - B1, J2 to B7, J2
  - Reconnect ribbon cable to B1, J4

4. Insert disk (part # 081084) into drive
5. Turn main power switch ON. Start-up will take approximately 30 seconds. After start-up LED (D1) will be yellow and all lamps on LEDN1 will be extinguished.
6. As each board is tested the corresponding LEDN lamp will illuminate. Each lamp will be extinguished if the test is successful. It will remain illuminated if there is a failure. The testing sequence is: CPU, COMM 3&4, FLOPPY, FLASH, LOW I/O, HIGH I/O, ANALOG.

Each test can take 2 minutes. LED (D1) will be green if all tests pass. It will be red if there is a failure. Certain communication failures can cause the process to freeze. If a test is taking longer than 2 minutes, re-start the power supply.