

<b>Date</b>	18 Sep 2015	<b>Service Note #</b>	3200-2064	<b>Updated</b>	NA
<b>Product</b>	SensIR 3200		<b>Created By</b>	J. Yangco	
<b>Description</b>	Adding Modules to a 4 Position Unit				

<b>Release</b>	<input checked="" type="checkbox"/>	<b>Internal</b>	<input checked="" type="checkbox"/>	<b>Distributors</b>	<input checked="" type="checkbox"/>	<b>Customers</b>
----------------	-------------------------------------	-----------------	-------------------------------------	---------------------	-------------------------------------	------------------

Parts/Tools Required	Serial Numbers Affected
<ol style="list-style-type: none"> <li>Module 2800-0372 115V or 2800-0374 115V with Auto Detection Module 2800-0373 230V or 2800-0375 230V with Auto Detection</li> <li>Phillips screwdriver #1 and #2</li> <li>¼ inch Nut Driver</li> <li>PC/Laptop Serial Control Capable (Hyper-Terminal)</li> </ol>	All 4 Position Instruments

## Adding 2 Modules to a 4 Position Unit

**Reason:** Upgrade an existing disintegrating instrument from 4 positions to 6 positions.

**Pre-requisite:** Service Engineer or person performing this service must have proper training in servicing the instrument.




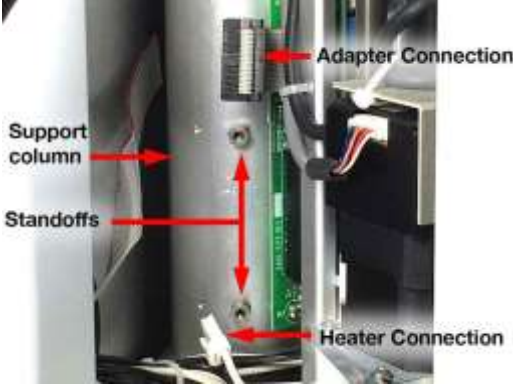
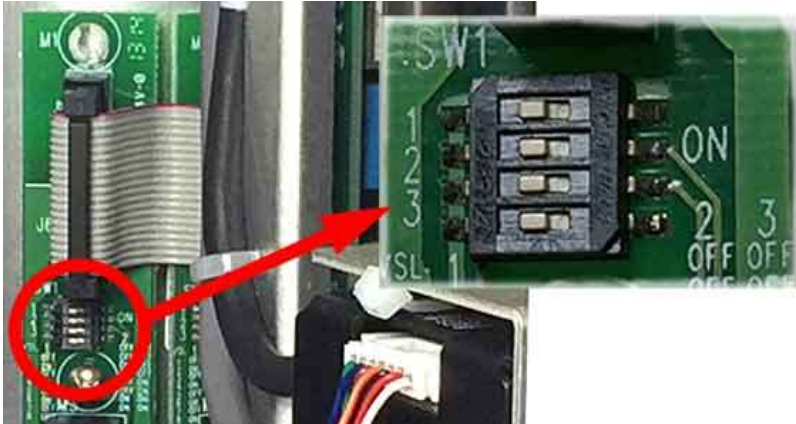
**Kit Contents (x2)**

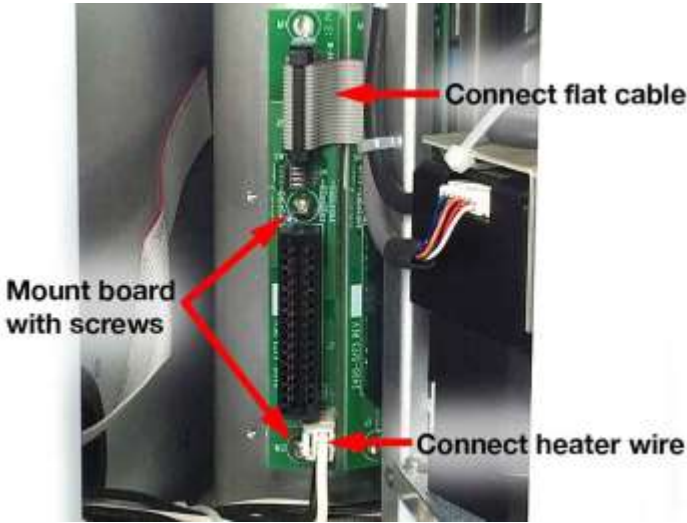
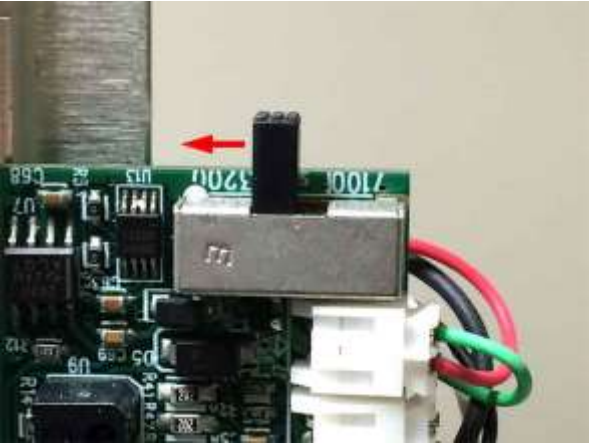
**Solution / Action**


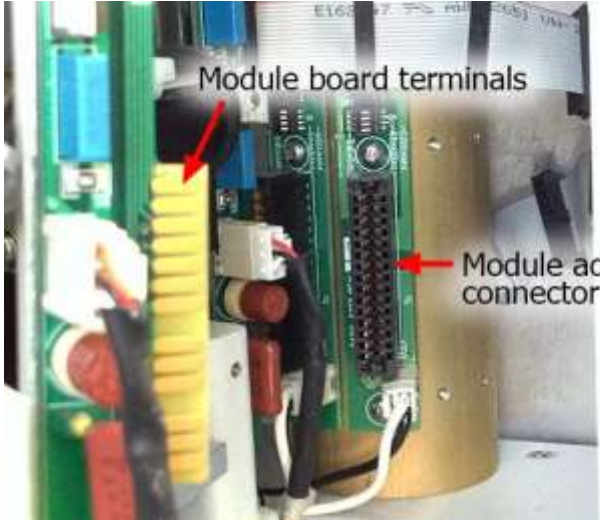


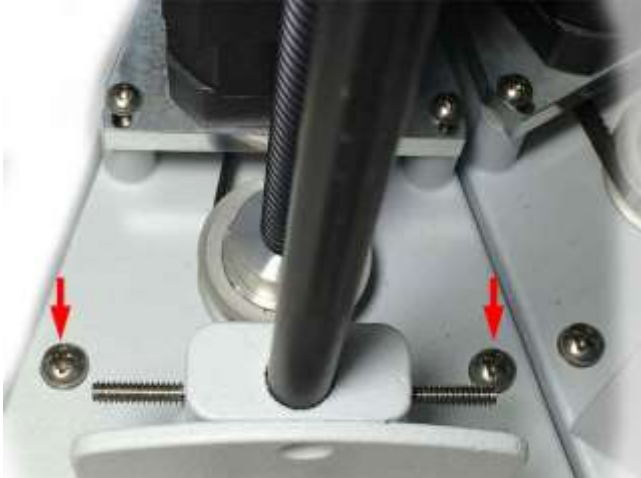


Before proceeding, discharge any static electricity from your body by touching a bare screw from the instrument. Turn off the instrument and disconnect the AC power cord.

<p><b>Step 1</b></p>	<p>On the new module assembly, remove the spindle cover by removing the two rear screws that secure the cover. Remove the module main cover by removing the three front screws and a screw on the top as shown. Lift both covers upwards to remove.</p> <div style="text-align: center;"> <p>Remove three front screws and one screw on top Module cover</p> <p>Remove two rear screws Spindle bottom cover</p> <p><b>Step 1</b></p> </div>
<p><b>Step 2</b></p>	<p>In the position where the new module will be installed (in this case position 1), remove the blank cover by removing the three front screws and the screw on the top as shown. Lift the blank cover upwards to remove.</p> <div style="text-align: center;"> <p><b>Step 2</b></p> </div>

<p><b>Step 3</b></p>	<p>Remove the blank bracket by removing the two screws as shown.</p>  <p style="text-align: center;"><b>Step 3</b></p>
<p><b>Step 4</b></p>	<p>Using a ¼ inch nut driver, install the two standoffs in the required position on the adapter support column as shown.</p>  <p style="text-align: center;"><b>Step 4</b></p>
<p><b>Step 5</b></p>	<p>Configure the adapter board DIP switches (SW1-all OFF) as shown to be used as module position 1.</p>  <p style="text-align: center;"><b>Step 5</b></p>

<p><b>Step 6</b></p>	<p>Install the module board (P/N 2400-5173) onto the two standoffs. Make sure the board is correctly positioned by ensuring the flat cable is in line with the adapter board socket as shown.</p>  <p style="text-align: center;"><b>Step 6</b></p> <p>Connect the flat cable (to J6) and the heater wiring (to J5) as shown above.</p>
<p><b>Step 7</b></p>	<p>Configure the module board by sliding the switch so that it is set for 3200 as shown.</p>  <p style="text-align: center;"><b>Step 7</b></p>

<p><b>Step 8</b></p>	<p>Slide in the new module into position 1 as shown.</p>  <p><b>Step 8</b></p>
<p><b>Step 9</b></p>	<p>While sliding the new module into position, the card edge terminals of the module should line up with the adapter card edge connector as shown. Gently push the module until it cannot go in any further.</p>  <p><b>For reference only.</b></p> <p><b>Step 9</b></p>

<p><b>Step 10</b></p>	<p>With the new module inserted and connected, using the two screws removed from Step 3, secure the module vessel plate as shown.</p>  <p style="text-align: center;"><b>Step 10</b></p>
<p><b>Step 11</b></p>	<p>Repeat Steps 1 to 9 to install the second module kit. This will be module position 6.</p> <hr/> <p style="text-align: center;"><b>For position 6, configure the DIP switch SW1 as shown.</b></p>  <p style="text-align: center;"><b>1=On, 2=Off, 3=On</b></p>
<p><b>Step 12</b></p>	<p>Remove the existing modules (2, 3, 4 and 5) one at a time and configure the DIP switches (SW1) as follows:</p>  <div style="display: flex; justify-content: space-around; text-align: center;"> <div data-bbox="326 1661 573 1728"> <p><b>1=On, 2=Off, 3=Off</b> <b>Position 2</b></p> </div> <div data-bbox="609 1661 855 1728"> <p><b>1=Off, 2=On, 3=Off</b> <b>Position 3</b></p> </div> <div data-bbox="891 1661 1138 1728"> <p><b>1=On, 2=On, 3=Off</b> <b>Position 4</b></p> </div> <div data-bbox="1174 1661 1421 1728"> <p><b>1=Off, 2=Off, 3=On</b> <b>Position 5</b></p> </div> </div>

<p><b>Step 13</b></p>	<p>Reconnect the AC power cord. Turn on instrument and login.</p>
<p><b>Step 14</b></p>	<p>Using a RS-232 Null cable, connect the instrument to the PC/laptop with serial port.</p> <div data-bbox="597 457 1149 945" data-label="Image"> <p>The diagram shows a Distek instrument with a control panel and two vessels. A red arrow labeled 'RS-232 Null Cable' points from the instrument to a laptop icon labeled 'Hyper-Terminal'.</p> </div> <p style="text-align: center;"><i>For reference only.</i> <b>Step 14</b></p>
<p><b>Step 15</b></p>	<p>Using Hyper-Terminal (or equivalent), set the total number of position using serial command:</p> <p><b>[AA SYST:VSL# N]</b> Sets the number of total vessels (N: 2 to 8)</p> <p>Example: [AA SYST:VSL# 6]</p> <p>Response: [!]</p> <p>Once the desired number of position is set, cycle the power to accept the changes.</p>
<p><b>Step 16</b></p>	<p>Login to the instrument. The instrument user interface should display all 6 position. If it does not, check the DIP switch (SW1) setting for each module.</p>



**Before putting back the covers, it is advisable that the instrument be tested for proper operation.**