

<b>Date</b>	27 Jan 2015	<b>Service Note #</b>	6x00-2037	<b>Updated</b>	N/A
<b>Product</b>	EVO 6100/6300	<b>Created By</b>	Joey Yangco		
<b>Description</b>	Replacing the DIP Switch (K1) Using Jumper Wires				

<b>Release</b>	<input checked="" type="checkbox"/>	<b>Internal</b>	<input checked="" type="checkbox"/>	<b>Distributors</b>	<input type="checkbox"/>	<b>Customers</b>
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Parts Required	Serial Numbers Affected
Soldering Iron with a fine tip/Solder 22 to 28 AWG Jumper Wire Utility Knife or Precision Wire Cutting Pliers	All

## Replacing the DIP Switch (K1) Using Jumper Wires


**Reason:** The DIP switch (K1) overtime develops poor contacts and fails that causes the embedded PC-104 to respond erratically.

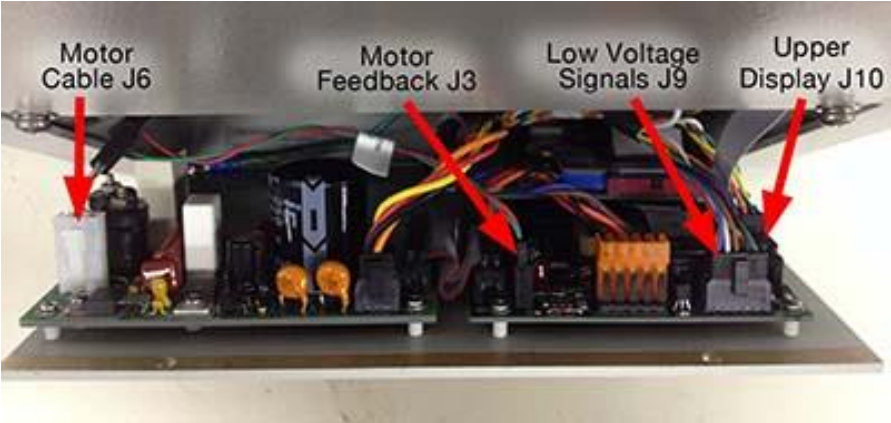


**Pre-requisite:** Service Engineer or person performing this service must have proper training in servicing the instrument.






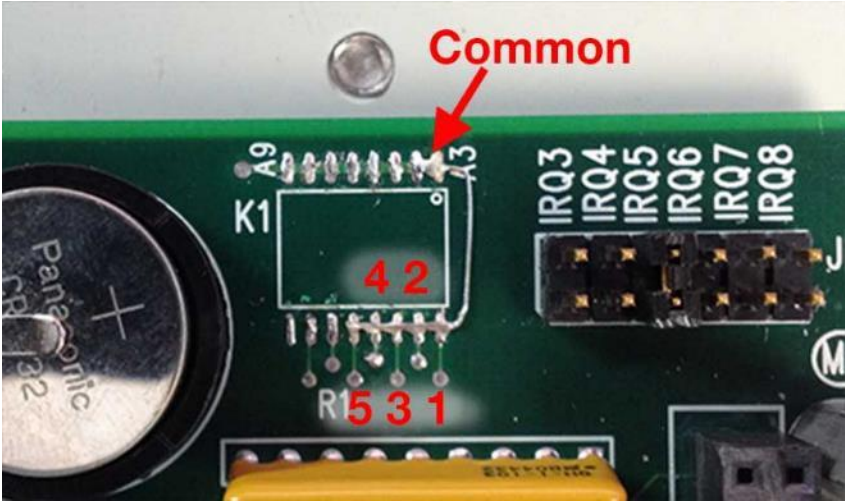


**Before proceeding, discharge any static electricity from your body by touching a bare screw from the instrument. Turn off the instrument and disconnect the AC power cord.**

### Solution / Action

<b>Step 1</b>	<p>Using a 1/8 inch hex key, open the lower rear cover assembly of the instrument by removing the 2 socket head screws at the top of the panel door.</p>  <p style="text-align: center;"><b>Step 1</b></p>
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<p><b>Step 2</b></p>	<p>Once the screws are removed, partially open the panel until the following cables are accessible and disconnect the connectors as shown:</p>  <p style="text-align: center;"><b>Step 2</b></p>
<p><b>Step 3</b></p>	<p>With the panel fully accessible, the embedded PC-104 will be located on the right hand side, when looking from the back of the instrument. Disconnect the cables from the existing PC-104 as shown.</p>  <p style="text-align: center;"><b>Step 3</b></p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">  <p><b>The type of PC-104 in the instrument can vary, so label all the connections or take a picture before disconnecting the cables.</b></p> </div>

<p><b>Step 4</b></p>	<p>Remove the four screws securing the PC-104 boards as shown.</p>  <p style="text-align: center;"><b>Step 4</b></p>
<p><b>Step 5</b></p>	<p>Carefully pull the PC-104 board away from the interface board, by holding the board on both sides evenly and pulling it up.</p> <hr/>  <p><b>You may need to gently rock the board back and forth to loosen the connection while pulling it up.</b></p> <hr/>
<p><b>Step 6</b></p>	<p>Locate the DIP switch labeled “K1” on the interface board. Using a sharp utility knife or wire cutting pliers, carefully cut the terminals on the DIP switch one at a time on each side as shown.</p>  <p style="text-align: center;"><b>Step 6</b></p>

<p><b>Step 7</b></p>	<p>With the DIP switch removed, solder a piece of the jumper wire. The wire must connect all five terminals (1, 2, 3, 4 &amp; 5) of the switch with the common terminal as shown.</p>  <p style="text-align: center;"><b>Step 7</b></p>
<p><b>Step 8</b></p>	<p>Install the embedded PC-104 board carefully making sure that all terminal pins are lined up properly before inserting the board fully.</p>  <p style="text-align: center;"><b>Step 8</b></p>
<p><b>Step 9</b></p>	<p>Secure the PC-104 board and reconnect all the cables (from steps 2 and 4).</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;">  <p><b>Be sure to use the cable on the kit (for J11) if replacing an older version (with disk module) of PC-104.</b></p> </div>
<p><b>Step 10</b></p>	<p>Close the rear panel partially and test the instrument for proper operation.</p>
<p><b>Step 11</b></p>	<p>If instrument is functioning properly, secure the rear panel and reposition the instrument to its original position.</p>