



### What is a Sensor Threshold setting?

To ensure accurate feeding of labels, the TEC B452 printers attempt to detect the start and end of each label by shining a light through the media onto a sensor. Where there is a gap between the labels as they are mounted on the backing, more light is able to shine through and is registered by the printer as an increased voltage on the sensor. The sensor threshold setting tells the printer how strong the penetrating light must be to trigger the sensor.

### Why do I need to adjust the Threshold setting?

Because different materials, or even the same materials from different manufacturing batches, may differ in opacity (the extent to which they permit light to pass through). A sensor adjust operation calibrates the printer to detect the light level (within a certain tolerance) that signifies the inter-label gap for the current media, so a change in media may require recalibration.

### When do I need to adjust the Threshold Setting?

Whenever your printer is stopping with the “PAPER JAM” error without there being any apparent obstruction in the media. This is most likely to occur immediately after loading new media but can occur mid-roll.

### How do I adjust the Threshold Setting?

By following the simple procedure outlined below.

### MANUAL THRESHOLD SETTING

1. Switch OFF the printer.
2. Locate the DIP Switch panel on the back of the printer.

<b>Dip Switch Settings (Default configuration shown)</b>  <i>Switches are numbered top to bottom.</i>  <i>Left = on</i> <i>Right = off</i>	SW	ON	OFF				
	1		<input type="radio"/>				
	2	<input type="radio"/>					
	3		<input type="radio"/>				
	4		<input type="radio"/>				
	5		<input type="radio"/>				
	6		<input type="radio"/>				
	7		<input type="radio"/>				
	8		<input type="radio"/>				
				Manual Threshold Mode			
				6	<input type="radio"/>		
				7		<input type="radio"/>	
				8	<input type="radio"/>		

3. Set the DIP switches to ‘Manual Threshold Mode’ (ie. 6 = On, 7 = Off, 8 = On – see diagram).
4. Ensure the roll of labels to be calibrated has been loaded in the usual way.
5. Press and Hold the [Feed] key whilst turning on the printer. Release [Feed] key.

Power	Online	Error	Lights (* = lit, * = blinking)
O	*	*	



6. Press [Feed] key once (select Reflective Sensor).

Power	Online	Error	Lights (* = lit, <u>*</u> = blinking)
*	O	*	

7. Press [Feed] key again (Select Transmissive Sensor – Omit this step if you are using ‘Black Mark’ labels, ie. labels which have a black line on the reverse of the backing corresponding with the label gap).

Power	Online	Error	Lights (* = lit, <u>*</u> = blinking)
O	*	*	

8. Press and Hold the [PAUSE] key. The printer will commence feeding labels, continue to hold the [PAUSE] key depressed until three or four labels have been fed through.

Power	Online	Error	Lights (* = lit, <u>*</u> = blinking)
<u>*</u>	O	*	

9. Switch OFF the printer.

10. Return the DIP switches to their original positions (ie. 6, 7, 8 all Off).

11. Switch on the printer and test print a few labels.

If problems persist, produce a diagnostic print (see below) then call Hibiscus PLC IT Support for further assistance (please have the diagnostic print to hand when calling).

### DIAGNOSTIC PRINT

1. Switch the printer OFF.

2. Press and hold the [PAUSE] key whilst switching the printer on.

Power	Online	Error	Lights (* = lit, <u>*</u> = blinking)
<u>*</u>	<u>*</u>	O	

3. Press the [FEED] key – the printer prints the first part of the diagnostic log.

Power	Online	Error	Lights (* = lit, <u>*</u> = blinking)
O	*	O	

4. Press the [FEED] key again – the printer prints the second part of the diagnostic log.

Power	Online	Error	Lights (* = lit, <u>*</u> = blinking)
O	*	O	

5. Switch the printer off and back on to resume normal operation.