

**Silo Radio Frequency Bindicators**

<b>Equipment:</b>	All (RF) bindicators, Astec P/N 047342	<b>Date Issued:</b>	6-18-2003
<b>Additional Reference:</b>	none	<b>Revised:</b>	no
<b>By:</b>	Rick Hodge, Service Support Coordinator	<b>Revision #:</b>	0
		Astec Service Department	

**PURPOSE:**

To provide a recommended "set-up" procedure for radio frequency (RF) bindicators used in silos.

**INITIAL CONFIGURATION:**

With the board positioned with the terminal strip towards you:

1. Set the jumper **J4** , to the left for low silo, or to the right for use as a high silo alarm. Note: J4 is just above the transformer in the center of the board.
2. Put the **timer jumper** on pins 5 and 6. Note: this is the blue jumper at the top of the board, just to the right of center.

**SET-UP:**

Make sure the silo level is below probes.

1. Turn pot **R23** fully clockwise (CW). Note: 32 turns, or until it clicks.
2. Set **tuning dial (SW1)** to zero (0), full counter clock-wise (CCW). Note: the green LED should be on.
3. Start turning the **tuning dial** CW until the light just goes off.
4. Turn **R23** CCW until the green LED just comes back on. Then turn **R23** six (6) more turns CCW, this will get you very close to where you want to be.

The bindicator is now set-up.

**TO FINE TUNE and CHECK THE PROBE:**

Set a digital volt meter to DC millivolts (mV). The black lead (-) on Test Point 6 (**TP 6**), and the red lead (+) on **TP 7**. Six (6) turns of **R23** should be about 150 mV, you want to be at least this. The higher the mV the less sensitive the probe. 150 mV to 180 mV usually works very well.

To test the system. Open manhole cover. With a metal rod short the bindicator probe to the silo.

**POSSIBLE PROBLEMS:**

- A. The probe has fallen off.
- B. The probe is shorted to ground.
- C. Water on the board.

Note: It is recommended that the bindicators be powered at all times. Leave the power on!

For complete unit, order ... P/N 047342

For board only, order ... P/N 067745