

<b>TRANSMATION</b> Products Group	C-41 Field Cal/Test		DOCUMENT NO.	REV.
			1-906	A
Created by: D.NEFF		Date: 25 OCT 94	Sheet 1 of 1	

Rev	Date	Appd	DCN								
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**Suggested Equipment:**

- Solid state relay (or a known good C-41)
- Oscilloscope
- Counter (or Altek 941)
- Frequency Generator (or Altek 941)
- 10Ω resistor

**Test Read**

- Before the Model C-41 is checked for proper operation, a fresh 9 volt battery (alkaline, DURACELL MN1604B are recommended) should be placed in the unit.
- Connect the frequency generator to the input of the solid state relay (or to the 'to 941' posts of a known good C-41 turned on to source).
- Turn on the C-41 to be tested to read and short the dry contact leads. Verify that the LED lights.
- Connect the dry contact leads of the C-41 being tested to the output of the solid state relay (or to the dry contact leads of the known good C-41).
- Connect the counter to the 'to 941' posts of the C-41 being tested.
- Set the counter to read 10KHz range at 1V trigger level.
- Set filter to min on C-41 being tested (fully CCW).
- Set frequency generator to source a 2KHz, 10V peak, zero based square wave.
- Verify that the frequency counter reads 2KHz ± 0.1Hz.
- Set filter to max on C-41 being tested, and verify that the counter can not read the 2KHz signal.
- Reduce the frequency of the frequency generator and verify that the counter can not read frequencies above 400 Hz ± 100 Hz.

**Test Source**

- Connect the frequency generator to the 'to 941' posts on the C-41 to be tested.
- Connect the dry contact leads of the unit being tested to a 5V source in series with a 10Ω resistor.
- Turn on C-41 to be tested to source.
- Set frequency generator to source a 5KHz, 10V peak, zero based square wave.
- Connect counter across the 10 Ω resistor (observe polarity).
- Set the counter to read 10KHz range at 0.3 V trigger.
- Verify counter reads 5 KHz ± 0.1 Hz.