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

Rev	Date	Appd	DCN								
A	25OCT94	DJN	-----								

Suggested Equipment:
Solid state relay (or a known good C-41)
Oscilloscope
Counter (or Altek 941/942)
Frequency Generator (or Altek 941/942)
10 Ohm resistor

Test Read
-Before the Model C-41 is checked for proper operation, a fresh 9 volt battery (alkaline, DURACELL MN1604B is 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 $2KHz \pm 0.1Hz$.
-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 $400\ Hz \pm 100\ Hz$.

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 10 Ohm 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 Ohm resistor (observe polarity).
-Set the counter to read 10KHz range at 0.3 V trigger.
-Verify counter reads $5\ KHz \pm 0.1\ Hz$.