

g GE Canada

Electronic Products Repair

Test Instructions for

0621L0204 G001

Device Number

Non-Plugging Field Interface card

Description of Device

Originated By: Rogério Cordeiro
Typed Name

Date: July 6, 2005
mm/dd/yy

Approved By: Lucio Carrescia
Signature

Approval Date: July 6, 2005
mm/dd/yy

TEST INSTRUCTIONS

PREVIOUS REVISION SHEET

0621L0204 G001

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Non-Plugging Field Interface card

Description of Device

[illegible]

TEST INSTRUCTIONS

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0621L0204 G001
Date: July 6, 2005

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1. PURPOSE:
 - a. Static and dynamic test procedures for Non-Plugging Field Interface card 0621L0204 G001
2. ELEMENTARY:
3. EQUIPMENT:
 - a. 51pin jig.
 - b. 50pin to 34pin ribbon cable converter.
 - c. +/-15V power supply.
 - d. 1k Ω resistor.
 - e. 200 Ω resistor.
 - f. DMM
 - g. Oscilloscope.
 - h. 2A current source.
4. SET UP:
 - a. Connect +15V to pin9 and pin17.
 - b. Connect -15V to pin33.
 - c. Connect Com to pin25.
5. PROCEDURE:
 - a. Energize power.
 - b. Observe figure1 on U5-pin3 at $\approx 1.2\text{kHz}$.

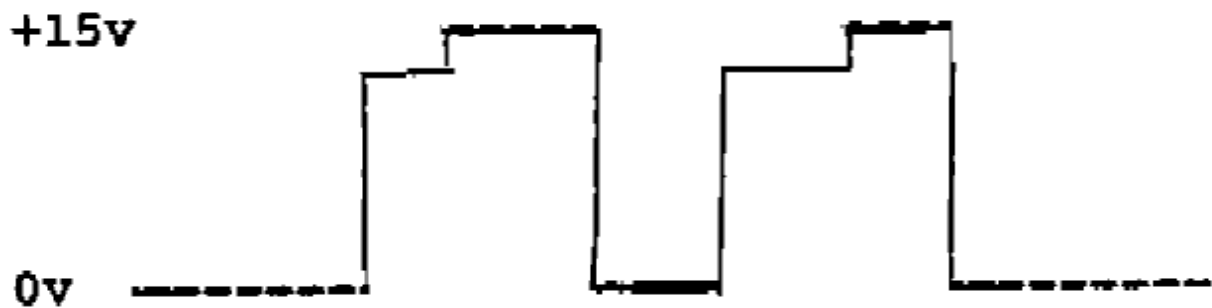


Figure 1

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c. Observe figure2 on SC4 at $\approx 1.2\text{kHz}$.

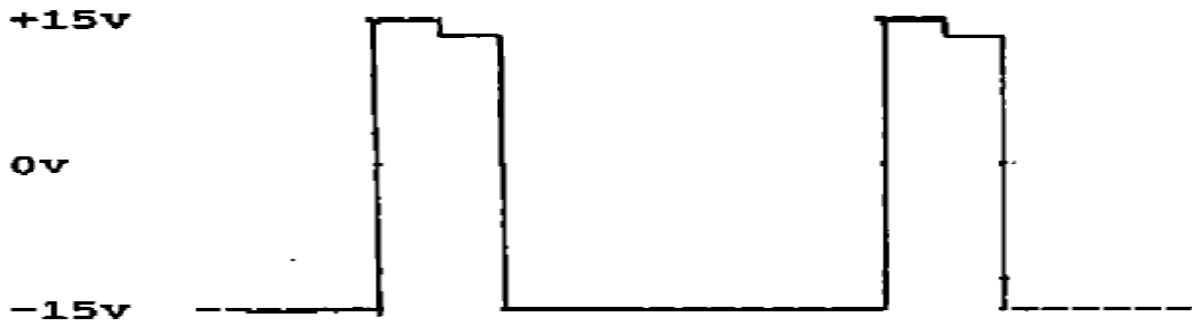


Figure 2

d. Observe figure3 on U3-pin1 at $\approx 1.2\text{kHz}$.

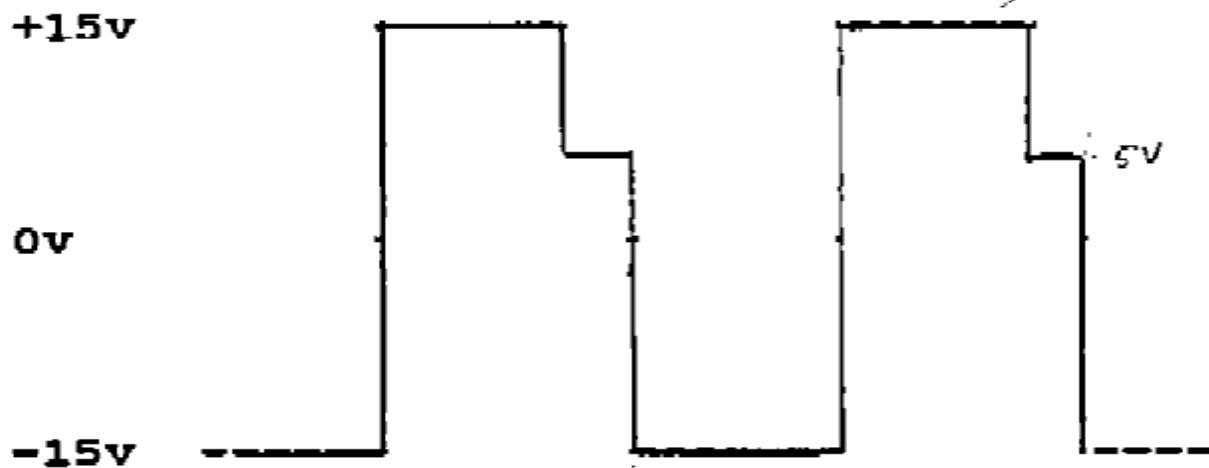


Figure 3

e. Observe figure4 on U4-pin1 at $\approx 1.2\text{kHz}$.

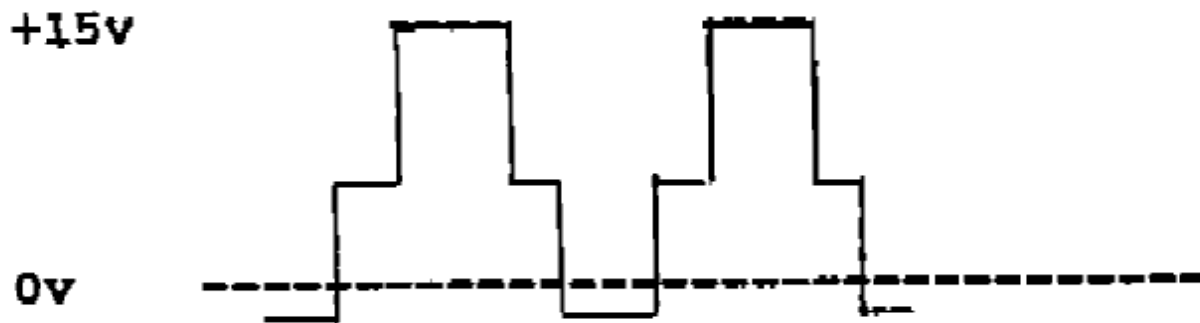


Figure 4

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- f. Connect $1k\Omega$ load to SC3 and SC4.
- g. Observe CP55 with a scope and zero with P2.
- h. Apply $0.1V_{rms}$ to FN5 and FN25.
- i. Observe Figure5 on TP8.

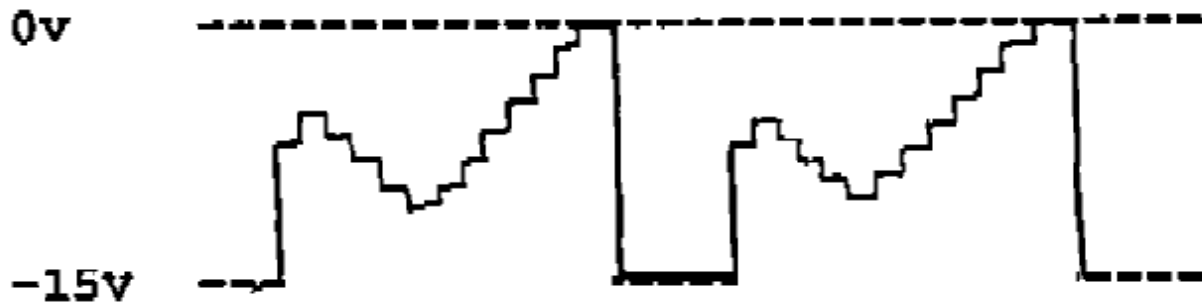


Figure 5

- j. Observe figure6 on CP55.

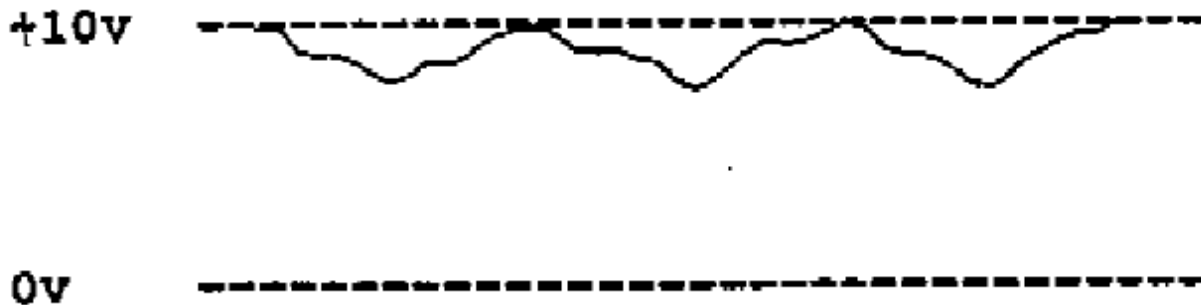


Figure 6

- k. Connect $120V_{rms}$ to the junction of R36 and R37 (AC HOT) and the junction of R39 and R40 (AC NEUTRAL)

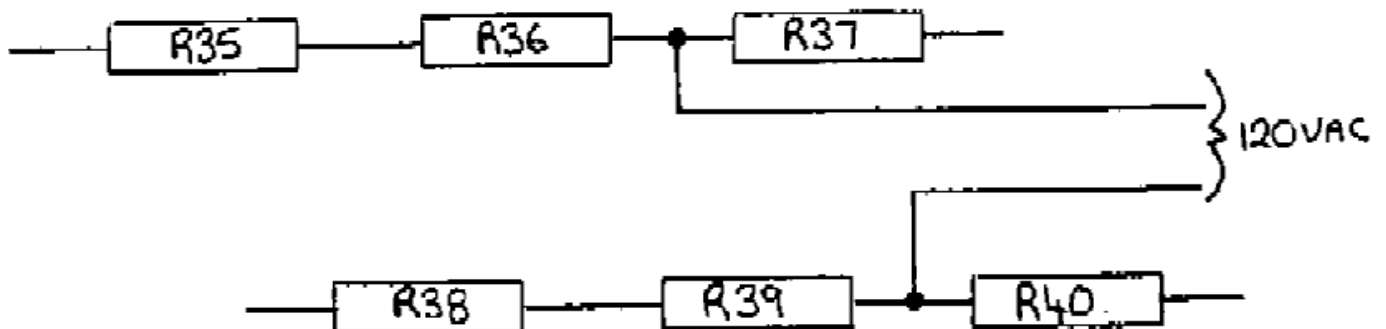


Figure 7

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1. Observe figure8 on TP5, adjust R1 such that TP5 and AC HOT switch at the same point.

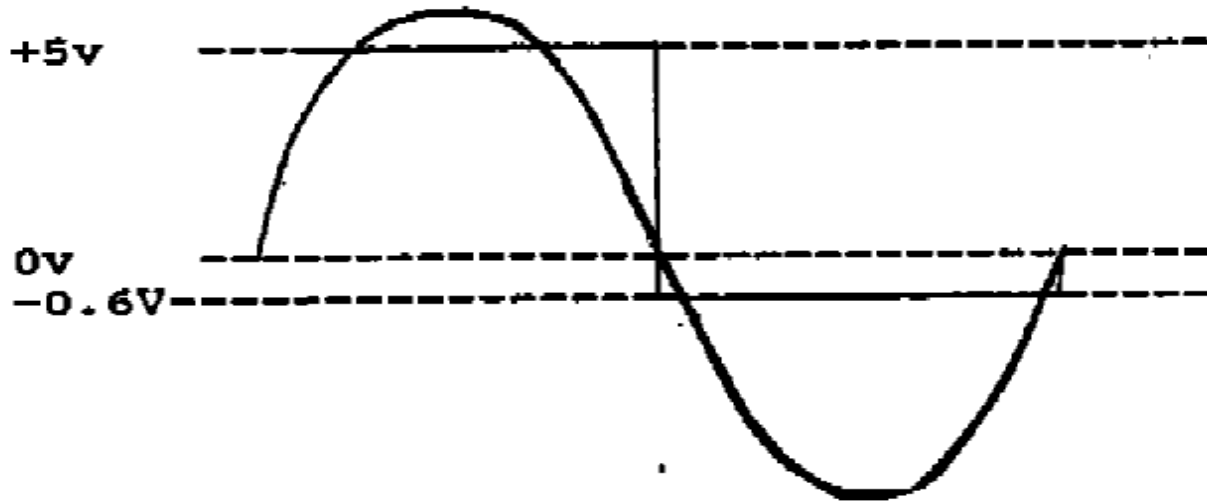


Figure 8

- m. Leave the connections for the zero crossing intact.
- n. Jumper AC HOT to CP1 and AC NEUTRAL to CP3.
- o. GND the appropriate input for the corresponding output.

JF to GND	Zener	Cathode
2	Z4 \approx 8.4V	Z4 to DC+ \approx 27V
4	Z5 \approx 8.4V	Z5 to AC1 \approx 27V

Table 1

- p. Install 200 Ω into SC3 and SC4.
 - q. Connect 5A DC supply to FN5 (+) with respect to FP (-).
 - r. Connect and ammeter in series with the supply.
 - s. Increase Supply to obtain 2A on the meter.
 - t. Measure \approx 8V on CP55.
 - u. If the voltage is greater than 12V then PE and PS are reversed on T1.
6. UPGRADES:
 7. END: