

### 1. Purpose

This document provides instructions for use of the XCel Streaker Card. This document is provided with each Streaker Card shipped to customers and is also available separately. In addition, an up to date copy is included as an attachment to the *System Practice* with each XCel Multi-Service COT Shelf shipped. GoDigital recommends that one copy of the complete *System Practice* be kept in each Central Office that is equipped with XCel Systems.

### 2. Products

This Installation Note is relevant for the following GoDigital products:

Product Name	Part #	Description
STRKR HICAP	990210	Streaker Card for Testing XCel Multi-Service Shelf

### 3. Overview

The GoDigital Networks Streaker unit is used in the XCel Multi-Service Central Office Terminal (COT) Shelf to provide continuity and polarity tests of the VF cables and MDF terminations. The Tip/Ring testing is done prior to power being applied to the COT. The Streaker Unit holds two 9Vdc batteries and one spare battery for energizing the VF pair(s) under test. See Figures 2-1 and 2-2.

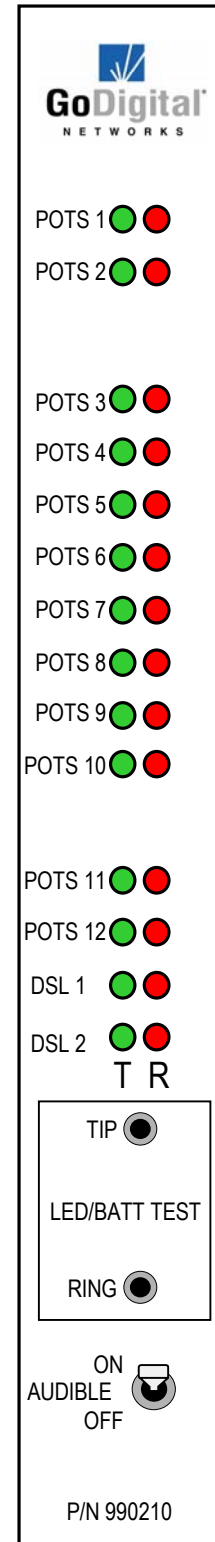
### 4. Features

- Designed for used with the Multi-Service COT Shelf
- Tests fourteen (14) lines per card from Shelf to MDF
- Checks for active Tip and Ring service line feeds
- Checks twelve (12) service lines and two (2) DSL lines
- Display provides dual Tip and Ring LEDs
- Tip and Ring Test/Access Points
- On board, two 9 Volt DC batteries with buttons to test battery life, plus a spare battery
- Audible, Visual and Polarity test feature
- On - Off Switch Audible Control

### 5. Indicators

- A Tip /Ring Test
- B LED's for Tip - Ring Polarity Display
- C Switch Control of Audible Feature

**Figure 2-1**  
**Streaker Unit**  
**Installed Front View**



# Installation Note

## XCel Streaker Unit

### 6. Basic Test Procedure: New Installation with COT Power and Switch Lines Not Active

After connecting the VF Cables and before cutting over to the switch (talk battery) use the following procedure for each line card slot. COT power, Alarm Control Unit (ACU) and Central Office Terminal Units (CTUs) are not required for this test.

**NOTE: The XCel Streaker Unit can be used in a powered COT and no harm will come to the Streaker Card. See Section 6 of this document.**

- 6.1 Before using the Streaker unit, test the two 9Vdc batteries.
- 6.2 Depress each battery test switch labeled SW1 and SW2 on the side of the Streaker Unit. The SW1 LED should illuminate when the SW1 switch is depressed and the SW2 LED should illuminate when the SW2 switch is depressed. If either LED fails to illuminate, replace the appropriate 9Vdc battery. A spare battery is provided upon initial shipment.
- 6.3 Insert the Streaker Unit into the COT slot to be tested.

**NOTE: When installed, the Streaker Unit extends beyond the front of the Universal Shelf. Enabling access to additional test points and easier extraction. (See Section 6 and Section 7).**

- 6.3.1 If upon insertion indications are present then:
  - One LED Illuminated: Indicates shorted conductor Tip-Ground or Ring-Ground.
  - Both LEDs illuminated: Indicates that a Tip-Ring short is detected, or that line voltage is being received on one or more lines from the switch. (See section 6 of this document.)
- 6.3.2 If NO LED's are illuminated: Indicates no shorts, and testing can continue.

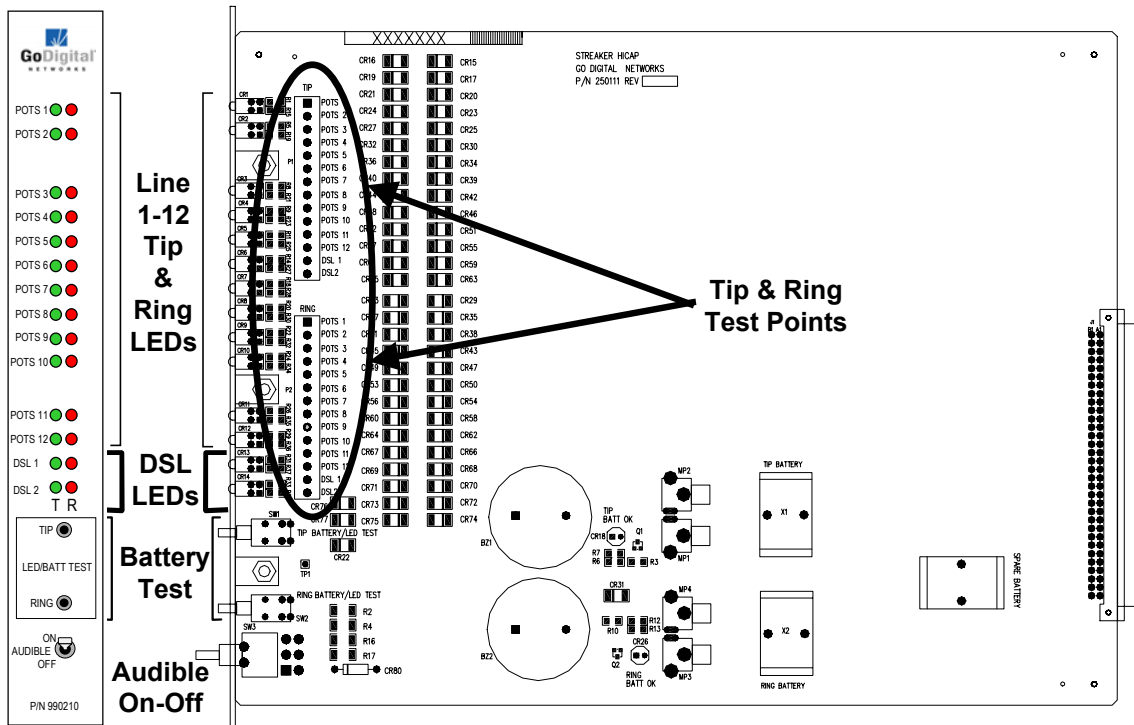


Figure 2-2 STRKR Unit - Side View & Faceplate

- 6.4 Proceed to the cable frame.
- 6.4.1 At the MDF: **Short each of the fourteen (14) designated Tips** to C.O. Ground.
- A tone and/or, **Tip** LED, indicates continuity.
  - No tone or **Tip** LED, indicates no continuity (**open**). Repair and continue.
- 6.4.2 At the MDF: **Short each of the fourteen (14) designated Rings** to C.O. Ground.
- A lower pitch tone and/or, **Ring** LED, indicates continuity.
  - No tone, or, **Ring** LED, indicates no continuity (**open**). Repair and continue.
- 6.4.3 Test of Card Slot/VF Cable and Frame completed, **move to next Card Slot**.

### 7. Troubleshooting / Testing an Active Card Slot

The Streaker Card can be plugged into an active slot to connections from the Multi-Service COT Shelf to the Switch. The twelve service lines (normally for POTS) can be tested when those lines are connected to active switch ports.

**NOTE: Removing a CTU from a slot will drop service on any off-hook customer lines and will render those lines inactive for the period that the CTU is removed. When the CTU is reinstalled it will take approximately two minutes for the XCel system to re-link with outside elements, thus restoring service.**

- 7.1 When the Streaker Card is inserted into a slot with one or more lines provisioned from the switch, the Streaker will indicate which lines are provisioned, and will open those lines to dial tone.
- 7.1.1 At the Streaker Card: **Indications of an active line:**
- Both the Tip and Ring LEDs will illuminate for each provisioned POTS line.
  - An audible tone on the Streaker Card will be initiated and can be disabled using the Audible On-Off switch on the faceplate.
- 7.1.2 The test points on the side of the card can be used to check for dial tone for each of the twelve Tip and Ring pairs for POTS lines. See Section 7 of this document for additional information on these test points.

### 8. Additional Testing Access:

The Streaker Unit is equipped with accessible Tip and Ring test points (See Figure 2-2) on the card that enable the craft person to gain access to the backplane/connector pairs for any other manual testing that may be required. These test pins can be accessed while the Streaker is installed in the XCel Shelf.

- 8.1 Dual pulse tones will sound and LEDs will light when a jumper is attached between each Tip and Ring pin, indicating short. Single pulse tone and LED will light when a jumper is placed between each Tip (or Ring) pin and the shelf ground lug (rack) indicating ground.
- 8.2 If the Streaker is installed with provisioned lines from the switch, the Tip and Ring pairs for a provisioned lined can be checked for dial tone with a butt set on the appropriate Tip and Ring test points.

Note: The dial tone accessed on the Streaker card at the test pins is provided only for checking cable continuity to the switch proper switch port. The signal may be noisy due to Streaker circuitry. The Streaker is not designed to provide TR-057 testing access.

# Installation Note

## XCel Streaker Unit



### 9. Specifications

- Dimensions ..... Height 8inches, Width 11.5 inches
- Audible Test Tones.....
  - Tip ..... Pulsing 3.5Khz, correct polarity
  - Ring ..... Pulsing 2.5Khz, correct polarity
  - Tip/Ring..... both Pulsing 3.5Khz and 2.5Khz present, pair shorted
- Batteries ..... Standard 9Vdc, three total, two each plus a spare
- Environmental..... No restrictions
- Cautions or Warnings..... None

**NOTE: The XCel Multi-Service Shelf should normally be mounted within 300 feet (total POTS cabling distance) of the central office POTS switch. The maximum distance should not exceed 500 feet. If the shelf is mounted too far from the switch service ports, the XCel V.90 signal processing capability on analog POTS lines may be reduced or disabled. The Streaker Card can NOT identify the distance from the shelf to the MDF or to the switch.**

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