Technical Assistance

PairGain Technical Assistance is available 24 hours per day, 7 days per week by contacting PairGain's Customer Service Engineering group (listed below).

During normal business hours (8:00 AM to 5:00 PM, Pacific Time, Monday through Friday, excluding holidays), technical assistance calls are normally answered directly by a Customer Service Engineer. At other times, a request for technical assistance is handled by an on-duty Customer Service Engineer through a callback process. This process normally results in a return call within 30 minutes of initiating the request.

In addition, PairGain maintains a computer bulletin board system for obtaining current information on PairGain products, product fault isolation tips and aids, helpful utilities, and for posting requests or questions. This system is available 24 hours per day by calling (714) 730-2800. Transmission speeds up to 28.8 kbps are supported with a character format of 8-N-1.

PairGain product, company, and application information can be found at http://www.pairgain.com using any Web browser.

Limited Warranty

PairGain Technologies, Inc. warrants this product to be free of defective and faulty workmanship for a period of 60 months, under normal use, from the date of shipment. PairGain's obligation under this warranty is limited to replacing or repairing, at PairGain's option, any such product that is returned during the warranty period per PairGain's instructions and which product, in PairGain's sole option, is determined to be defective upon examination at our plant.

Do not try to repair or disassemble the unit. If it fails, replace it with another unit and return the faulty unit to PairGain for repair. Any modifications of the unit by anyone other than an authorized PairGain representative will void the warranty.

If a unit needs repair, call PairGain at (800) 638-0031 for a Return Material Authorization (RMA) number and return the defective unit, freight prepaid, along with a brief description of the problem, to the PairGain Technologies, Inc. at 14352 Franklin Avenue, Tustin, CA 92780-7013.

PairGain will continue to repair or replace faulty modules beyond the warranty program at a nominal charge. Contact your PairGain sales representative for details and pricing.

ℓPAIRGAIN

PG-FLEX REMOTE TERMINAL CHANNEL UNIT STREAKER CARD QUICK REFERENCE GUIDE

MODEL FSU-796 LIST 5, P/N 150-1396-05

This PairGain® PG-Flex™ FSU-796 List 5 Remote Terminal Channel Unit (RTCU) Streaker card is a continuity tester. The card verifies that the Tip and Ring connections from the channel unit slots of a PG-Flex RT enclosure are wired to the termination point correctly, and that the RT line unit is providing the required power supply voltages to the channel units.

Unpack and Inspect the Shipment

When you receive the PG-Flex FSU-796 List 5 Streaker card:

1 Unpack the PG-Flex FSU-796 Streaker card and visually inspect it for signs of damage. If the components have been damaged in transit, immediately report the extent of damage to the transportation company and to your sales representative. Order a replacement unit if necessary.

2 Compare the contents of the package against the packing list. If the shipment is incorrect, contact PairGain as described in the "Limited Warranty" section.

Features of the FSU-796 List 5

The illustration shows the FSU-796 List 5 front panel, and the table describes the features and functions for the front panel LEDs and the LED Test switch.

Feature	Function
Tip 1 - 8 LEDs (T1 - T8)	Lights when one of the Tip subscriber terminations (T1 - T8) is shorted to ground.
	If the LED for the termination under test does not light, the termination is miswired.
	If the corresponding Ring LED lights, the subscriber termination is reversed.
Ring 1 - 8 LEDs (R1 - R8)	Lights when one of the Ring subscriber terminations (R1 - R8) is shorted to ground.
	If the LED for the termination under test does not light, the termination is miswired.
	If the corresponding Tip LED lights, the subscriber termination is reversed.

Line Unit Power Supply Voltages	
-170 Vdc 200 Vac -30 Vdc -52 Vdc ±5 Vdc	The six power supply LEDs indicate that the RT line unit is installed in the RT enclosure and is supplying power supply voltages to the channel unit.
	If any one of the LEDs do not light, the RT line unit is defective.
LED Test switch	When pressed, lights all the LEDs on the Streaker card.
	If all LEDs do not light, the 9V battery is bad or the FSU-796 List 5 is defective.
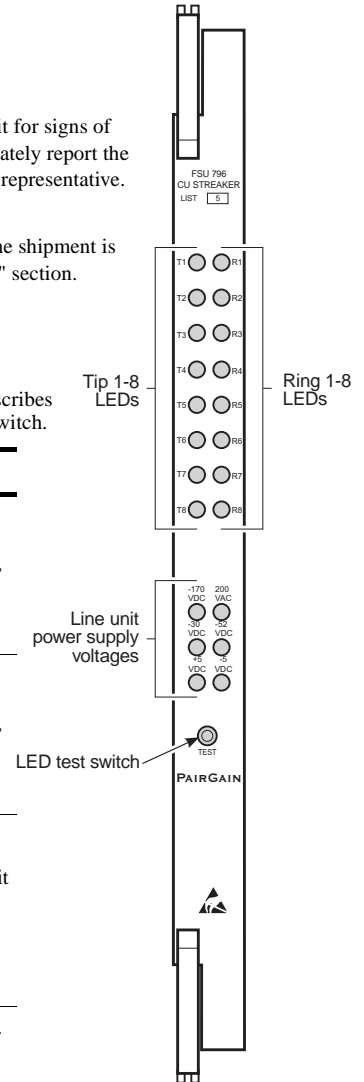
Before You Install the FSU-796 List 5

> **Verify that a 9V battery is installed on the FSU-796 List 5 Streaker card before starting this procedure.**

1 Press the LED Test switch on the FSU-796 List 5 front panel and verify that all Tip and Ring LEDs (T1-T8 and R1-R8) and power supply LEDs (-170 Vdc, 200 Vac, -30 Vdc, -52 Vdc, and ±5 Vdc) are on.

  • If no LEDs light, replace the 9V battery.
  • If no LEDs light after replacing the 9V battery, replace the FSU-796 List 5 Streaker card.
  • If any one of the LEDs do not light, replace the FSU-796 List 5 Streaker card.

Installing and Testing the FSU-796 List 5

> **An RT line unit is not required when testing the channel unit slot wiring.**

1 Slide the FSU-796 List 5 into the RT enclosure channel unit slot to be tested until the retaining latch on the front panel locks into position. (Refer to Figure 1 for the channel unit locations.)

2 Proceed to "Verifying the Channel Unit Slot Wiring."

Verifying the Channel Unit Slot Wiring

Use the following procedure to verify the wiring from each channel unit slot in an FRE-765 RT enclosure to the termination point.

> **Refer to the appropriate FRE-765 RT enclosure technical practice for channel unit subscriber terminations, and wire color or connector pin locations for the specific FRE-765 RT enclosure to be tested.**

1 At the cable termination point, connect a jumper lead from frame ground to the appropriate Tip or Ring subscriber termination and verify that the corresponding Tip or Ring LED on the FSU-796 List 5 is on.

  • If the correct Tip or Ring LED lights, proceed to the next subscriber termination.
  • If the Tip or Ring LED under test does not light, or the wrong LED lights, check the wiring to the RT enclosure.

2 Repeat the previous step for each channel card Tip and Ring subscriber termination.

3 Proceed to "Testing the Line Unit Power Supply Voltages."

Testing the Line Unit Power Supply Voltages

Use the following procedure to verify that the line unit power supply voltages are present at each of the channel unit slots.

> **An RT line unit must be installed and operating (with power applied) to supply the FSU-796 List 5 with the power supply voltages (-170 Vdc, 200 Vac, -30 Vdc, -52 Vdc, and ±5 Vdc) required for this test.**

1 Slide the FSU-796 List 5 into the RT enclosure channel unit slot to be tested until the retaining latch on the front panel locks into position. (Refer to Figure 1 for the channel unit locations.)

2 Verify that the -170 Vdc, 200 Vac, -30 Vdc, -52 Vdc, and ±5 Vdc LEDs are on.

  • If any of the power supply LEDs do not light, replace the line unit.
  • If none of the power supply LEDs light, check that power is applied.

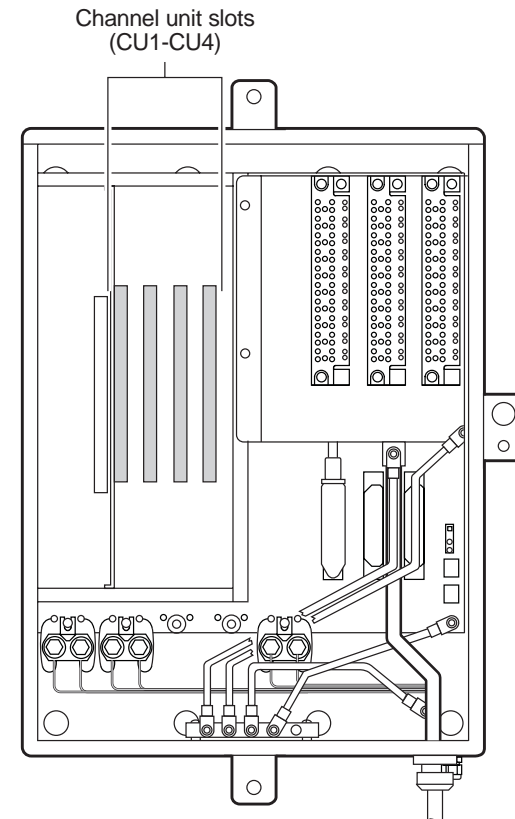**3** Repeat steps 1 and 2 for each channel unit slot.

Channel unit slots
(CU1-CU4)

Figure 1. *Channel Unit Slots CU1 - CU4*
(FRE-765 List 4D and 4E Shown)