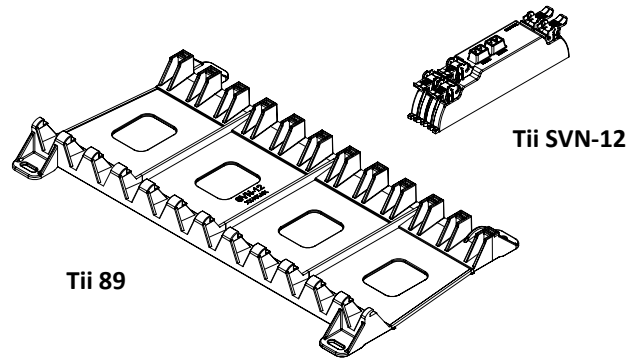


**Warranty:** If this unit fails during the warranty period, contact tii customer service to authorize return. Unit may be returned prepaid.



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**Model 89 Series**  
Two-Way Switchable Voice Module  
**Model SVN-12 Series**  
12 Position Panel



## Installation Note

### Description

1. This Installation Note covers the description and installation of the tii Series 89 and SVN-12. The tii 89 is deployed in conjunction with the tii SVN-12 panel. The tii 89 is supplied as an individual module. The SVN-12 can accommodate up to 12 tii 89 modules. The tii 89 has been designed to provide automatic switching between Telco to Digital Voice Services. The tii 89 should only be used for indoor applications. The tii 89 gets its power from the Digital Voice Service line and standard telephone line. IDC rockers are used to terminate 26-22 AWG solid wire. Test points are provided to enable customer line dial tone testing. The Line 2 connections are permanent once properly terminated.

### Installation

1. Remove the unit from the bag and inspect it for damage. If damaged, obtain another unit.
2. Locate a suitable flat, dry area to install the SVN-12 panel.
3. Mount the SVN-12 panel with the hardware supplied. Refer to Figure 2 for SVN-12 mounting dimensions. If the SVN-12 panel is already installed, identify the position in which the tii 89 module is to be installed.
4. Holding the module on an angle as shown in Figure 2, engage the left side fingers under the catch on the SVN-12 panel. Slowly lower the module and align the latch with the panel and engage module to the panel. Confirm that the module is securely engaged to the panel.

### Features

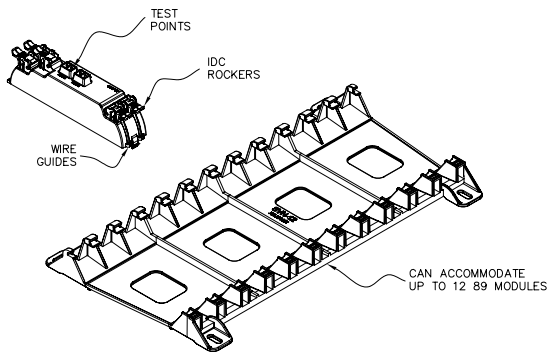


Figure 1

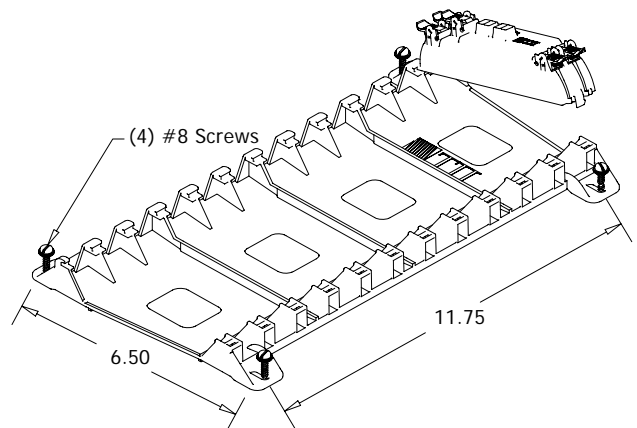


Figure 2

- Lift the blue rocker for the MSO service wires to the full up position. DO NOT strip wires. (See Figs. 3 & 4)
- Insert the MSO service wires from the ATA/EMTA into the wire guides simultaneously until they bottom-out. While holding wires in position, terminate into MSO (Blue) rocker by lowering to the full down terminated position. (See Figs. 3 & 4)

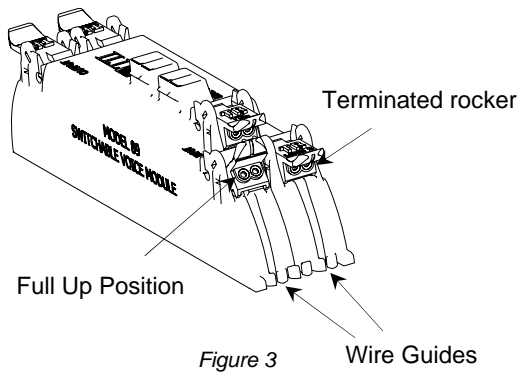


Figure 3

- Lift the Telco rocker to its fully upright position. Insert the Telco wires from the service provider into the Red and Green marked rockers. While the wires are fully inserted, lower the rocker fully down to complete the Telco wire termination. (See Figs. 3 & 4)

- Terminate the customer wiring onto the Red/Green marked rocker on the right side of the module. Insert wires into the customer rocker holes. While assuring that the wires are fully inserted lower the rocker to its fully seated position. (See Figs. 3 & 4)

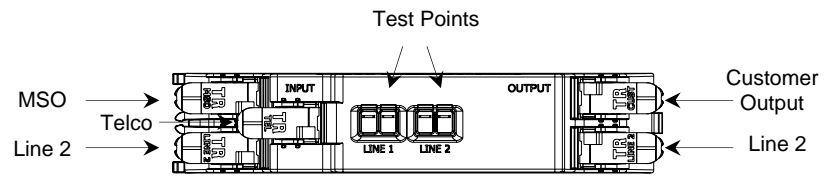


Figure 4

- Connect a wire pair designated as Line 2 from the ATA/EMTA to the rocker labeled TEL (Orange) on the left side of the module. Follow procedure described above for the wire pair termination. (See Figs. 3 & 4)
- Connect customer Telephone line 2 wiring to line 2 (Orange) rocker.
- To keep wire pairs organized, route them through the molded wire guides. (See Fig. 3)
- Repeat termination procedure steps 7 and 8 to terminate line 2 on module.
- Refer to Figure 5 for the 89 module functional schematic.

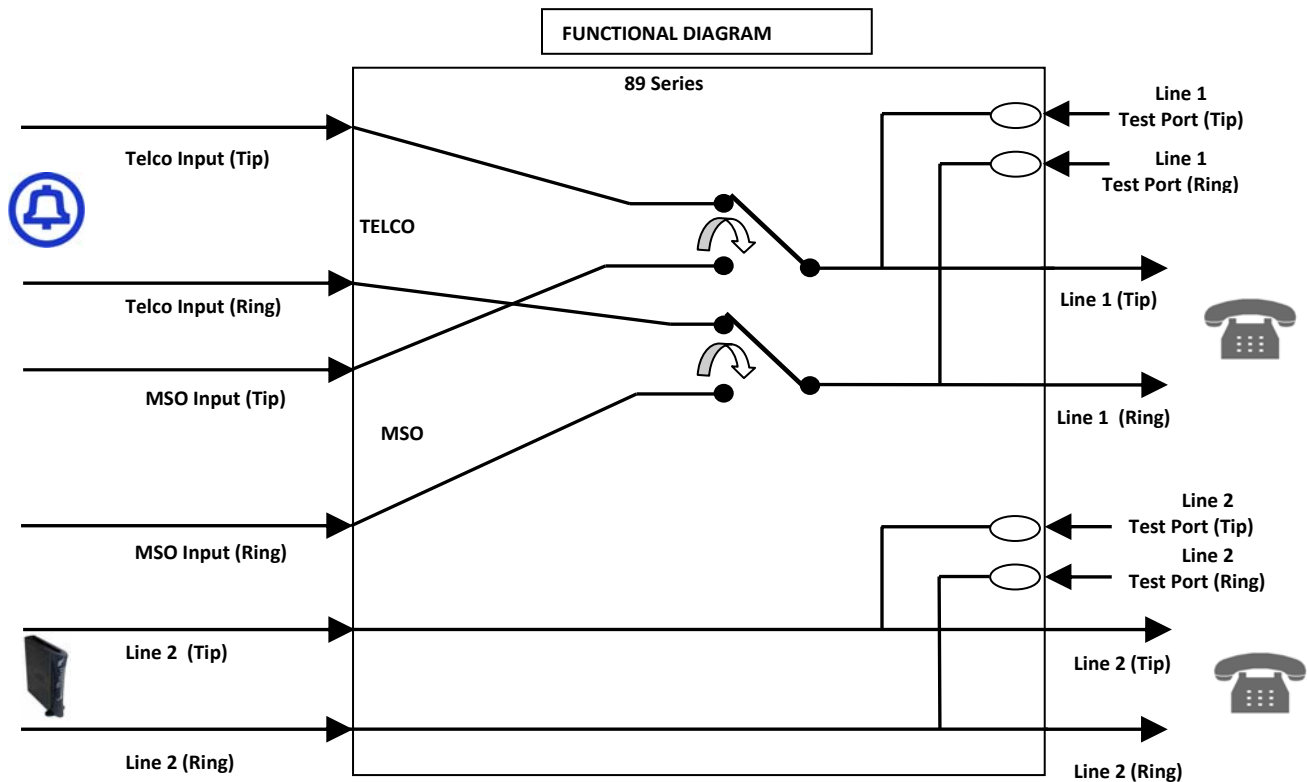


Figure 5