



# SSTI-2

## INSTALLATION GUIDE



## **COMPANY PROFILE**

Trilithic, Inc. was founded in 1986 as an engineering and assembly company providing customized communications and routing systems for business and government applications. As business expanded, Trilithic broadened its offerings by acquiring components manufacturer Cir-Q-tel and instruments manufacturer Texscan, adding broadband solutions to the product line.

Today, Trilithic is comprised of three major divisions, Broadband/CATV Instruments & Systems, Wireless & RF Microwave Components, and Field Technical Products. The Instruments Division specializes in the design and manufacturing of portable RF and digital test equipment and integrated test systems performing in a wide range of Broadband and LAN applications. The Wireless division provides components and custom solutions for companies specializing in cellular, military and other wireless applications. The Field Technical Products Division is a leading supplier of government-mandated Emergency Alert Systems used by Broadband service providers. An industry leader providing telecommunications solutions for major broadband and wireless markets around the world,

Trilithic is dedicated to providing quality products, services and communications solutions meeting or exceeding our customers' expectations. Today, from our worldwide headquarters in Indianapolis Indiana, we provide over 1500 measurement products and communications components to thousands of customers around the world.

## **TWO YEAR WARRANTY**

Trilithic, Inc. warrants that each part of this product will be free from defects in materials and workmanship, under normal use, operating conditions and service for a period of two (2) years from date of delivery. Trilithic, Inc.'s obligation under this Warranty shall be limited, at Trilithic, Inc.'s sole option, to replacing the product, or to replacing or reporting any defective part, F.O.B. Indianapolis, Indiana; provided that the Buyer shall give Trilithic, Inc. written notice.

Batteries are not included or covered by this Warranty.

The remedy set forth herein shall be the only remedy available to the Buyer under this Warranty and in no event shall Trilithic, Inc. be liable for incidental or consequential damages for any alleged breach of this Warranty. This Warranty shall not apply to any part of the product which, without fault of Trilithic, Inc., has been subject to alteration, failure caused by a part not supplied by Trilithic, Inc., accident, fire or other casualty, negligence or misuse, or to any cause whatsoever other than as a result of a defect. Except for the warranty and exclusions set forth above, and the warranties, if any, available to the Buyer from those who supply Trilithic, Inc., there are no warranties, expressed or implied (including without limitation, any implied warranties of merchantability of fitness), with respect to the condition of the product or its suitability for any use intended for it by the Buyer or by the purchaser from the Buyer.

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# **GENERAL INFORMATION**



## **Introduction**

The SSTI-2 is a necessary component for controlling the 9581TPX with a 9581SST. This guide is intended to assist a user with the proper installation of the SSTI-2 kit.

## **Equipment**

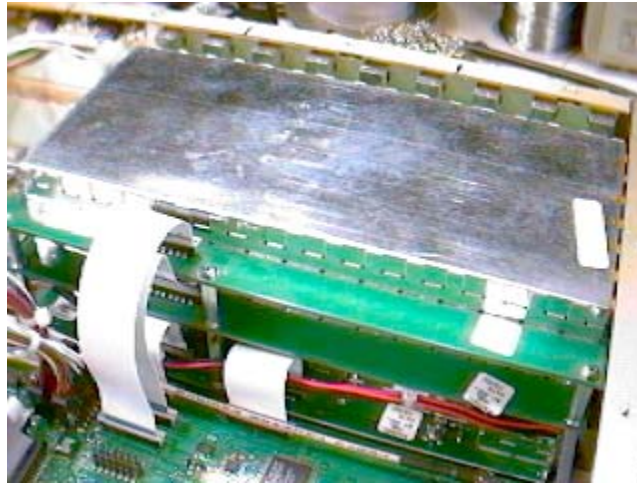
The SSTI-2 will require the following equipment for proper installation:

- #1 Phillips head screwdriver
- 3/16" nut driver
- 1 / 2" nut driver

## INSTALLING THE SSTI-2

### Preparation

Before you can install the SSSI-2 in your 9581SST you will need to remove any CM (NCM-4 or ACM-8) option currently installed. You will also need to disconnect one or both TPM-8 options from the SST depending on the number of 9581TPXs you will be connecting. The TPMs are depicted in the picture below and are stacked one above the other (has a single large metal shield on top side). Each one is connected to the DSP system board of the SST with a short ribbon cable.



You should disconnect only the TPM for the side you will be expanding to a TPX. Observing the back of the unit and looking for the A OUT or B OUT markings will identify the correct TPM. The RF jumper cables normally connect these ports to the appropriate REVERSE INPUT port. The connector above the text will be on the TPM of interest. You may either simply remove the ribbon cable, or remove the TPM itself as well as the cable. See the picture below.



Any disconnected TPM-8 options may be removed and installed in other 9581 return path monitoring equipment, which utilizes TPM-8s. If you do not have any TPM-8 options installed currently then your unit will be ready at this point.

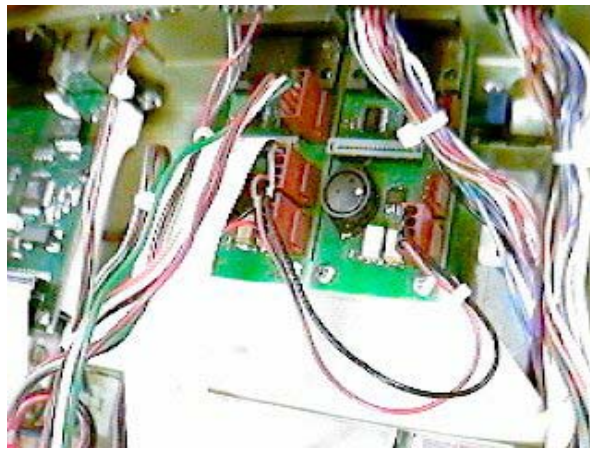
## Installation

Use your Phillips head screwdriver to secure both SSTI adapter boards to the metal bracket with the slotted holes in the bracket such that the boards will be elevated above the transmitter board in the bottom of the SST when installed. Next attach the rear panel faceplate with the TPX-A and TPX-B lettering facing to the outside of the SST. Now place the DB-9 connectors of each adapter through the holes in the rear plate and place the slotted holes of the metal bracket over the threaded posts on the bottom of the SST. Next use the 3/16" nut driver to secure the DB-9s to the rear panel with the threaded nuts provided. Now secure the metal bracket to the floor of the SST using the threaded posts provided. At this point the unit should look like the picture below from the rear panel.

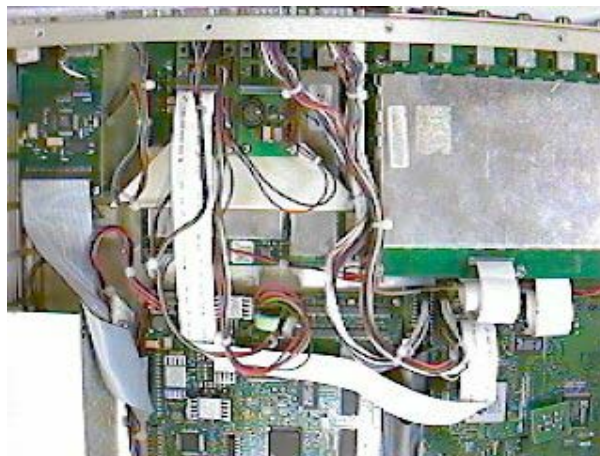


## Connecting the SSTI-2

Now we need to use the wiring kit supplied to finish connecting the SSTI-2. First take the long two wire cable from the power supply in the front left corner of the SST and connect the four pin socket to the mating connector at the bracket end of either adapter card. Take the short two-wire jumper supplied and connect to the four-pin header next to the one you connected the power supply cable to. Connect the other end of the cable to the bracket end header on the other adapter board. Next take the long ribbon cable if connecting only one TPX or both cables if connecting two TPXs and insert into the mating connector on the appropriate adapter board. You will know which one is correct by observing which TPM you are replacing (A or B) and then connecting the matching TPX- side. The contact side of the cable must face the rear of the unit when installed properly. Now take the opposite end of the cable and insert it into the empty TPM-8 cable socket on the DSP board also with the contacts facing to the rear of the unit. Now take the five wire cable/s supplied and connect them to the mating connector on the Microprocessor board of the SST. Take the opposite end of the cable and connect to the appropriate SSTI-2 adapter board. When connecting both adapters, the cables will NOT cross over each other. When done correctly the SSTI adapter board will look like the following picture.



In the case above only the TPX-B side is connected and the internal A side TPM-8 is still in use. If you are only connecting one TPX and you do not have an A side TPM-8, you **MUST** connect the A side TPX adapter and **NOT** the B side or the unit will not report your nodes correctly and will not recognize the TPX connected as it should. From the top the unit will look like the following.



Once you have completed the installation you can replace the lid and connect the SST to the TPX, but **NEVER** do this while the SST is powered up or you will damage the adapters on the SSTI-2. Connect your system first and then apply power.





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