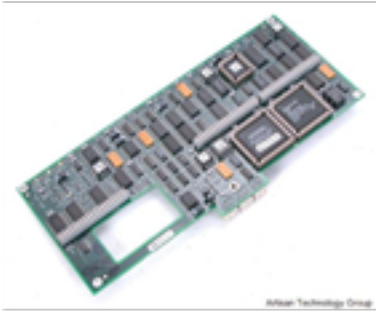
Tektronix Option 01

VXI Interface Daughterboard Servant



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Instructions

Tektronix

050-3248-00
U59 Integrated Circuit Firmware Version 506B
VX4428 Quad ARINC-429
Transmitter/Receiver Module

075-0123-00

Warning
The servicing instructions are for use by qualified personnel only. To avoid personal injury, do not perform any servicing unless you are qualified to do so. Refer to the Safety Summary prior to performing service.

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Service Safety Summary

Only qualified personnel should perform service procedures. Read this *Service Safety Summary* and the safety summaries in your product manual before performing any service procedures.

Do Not Service Alone. *Do not perform internal service or adjustments of this* product unless another person capable of rendering first aid and resuscitation is present.

Disconnect Power. To avoid electric shock, disconnect the mains power by means of the power cord or, if provided, the power switch.

Use Care When Servicing With Power On. Dangerous voltages or currents may exist in this product. Disconnect power, remove battery (if applicable), and disconnect test leads before removing protective panels, soldering, or replacing components.

To avoid electric shock, do not touch exposed connections.

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Kit Description

This kit includes parts and instructions to replace U59 so that during interrupt acknowledge (IACK) cycles it does not block 32 bit access. This mod also requires that you add a wire strap to the main board.

This document supports Tektronix modification: M84908.

Products

<VX4428> <B020284 and below.>

Minimum Tool and Equipment List

Required tools and equipment	Part number
Soldering Iron, 15 W	NA
Phillips screwdriver	NA
Open end wrench, 3/16	N/A

Kits Parts List

Circuit/figure number	Quantity	Part number	Description
- - - - - - -	1 ea	075-0123-00	Kit Instructions
U59	1 ea	163-0136-01	IC Digital: Prgm. PAL, Rev 506B
- - - - - - -	0.16 ft	- - - - - - -	Solid,30 AWG Kynar
- - - - - - -	1 ea	- - - - - - -	Kit Label

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Installation Instructions

These instructions are for personnel who are familiar with servicing the product. If you need further details for disassembling or reassembling the product, refer to the appropriate product manual. Contact your nearest Tektronix, Inc., service center or Tektronix factory service for installation assistance.

CAUTION. *To prevent static discharge damage, service the instrument only in a static-free environment. Observe standard handling precautions for static-sensitive devices while installing this kit. Always wear a grounded wrist strap, grounded foot strap, and static resistant apparel while installing this kit.*

Remove

Complete the following procedure to remove the main board.

1. Remove the sixteen screws securing the module covers. Refer to Figure 1.
2. Lift the module covers off the module.

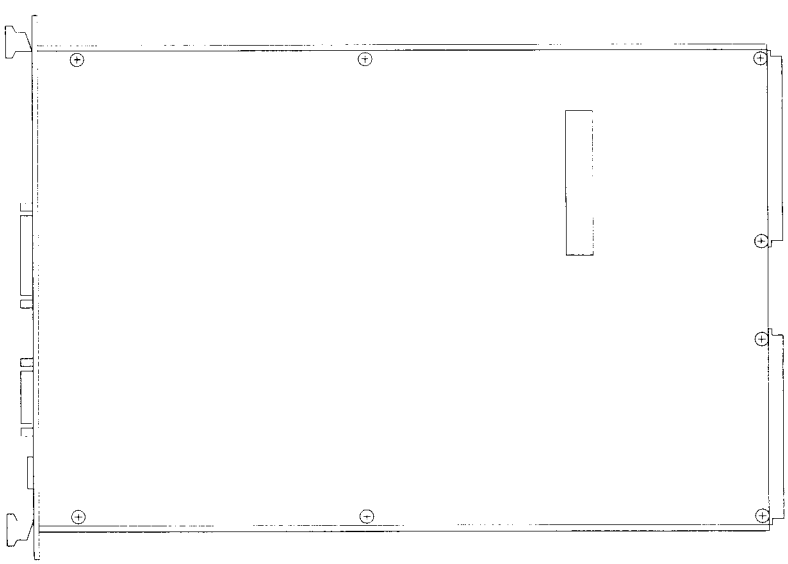

Figure 1: Remove module covers

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Install

Complete the following procedures to install the replacement integrated circuit (IC) and wire strap.

Install U59

1. Unsolder and discard the IC located in U59. Refer to Figure 2.
2. Solder the replacement IC, provided in this kit, in U59. Be sure to position the IC so that pin one is in the square pad on the circuit board. (Pin one on the IC is marked by a dot or can be identified by locating the pin to the left of the notch.)

Install wire strap

1. Turn the module over so that the solder side is facing up.
2. Cut a piece of wire about 1.5 inches long from the wire provided in this kit.
3. Strip a small amount of insulation from both ends of the wire.
4. Solder one end of the wire to P1-A21. Refer to Figure 2.
5. Solder the opposite end of the wire to pin 14 of U59. Refer to Figure 2.

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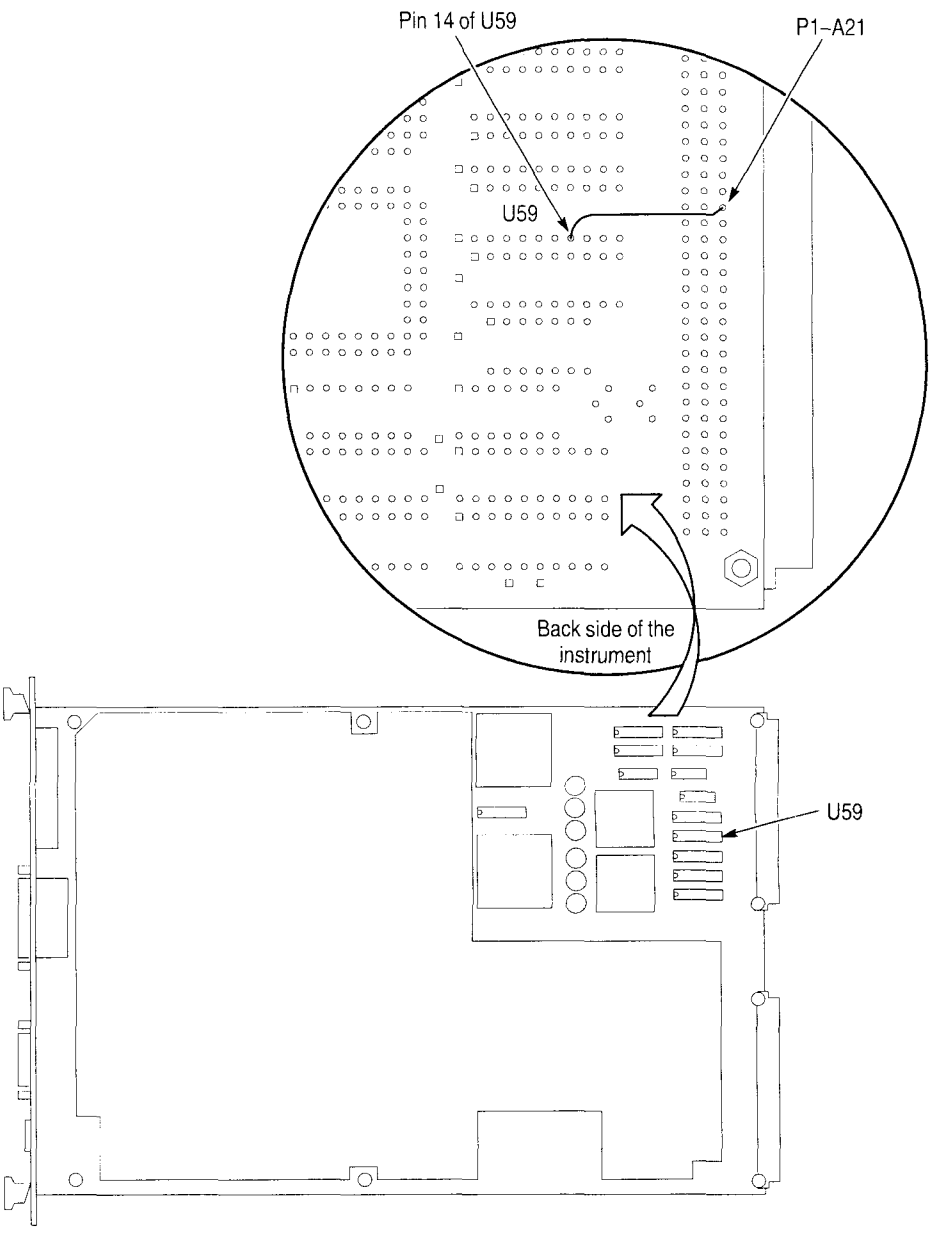

Figure 2: Install IC and wire strap

Reassemble

Complete the following procedure to reassemble the module and to add the kit label to the module cover.

1. Replace both module covers. Be sure the mylar side on the bottom cover is facing toward the solder side of the board.

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2. Tighten all screws on the covers.
3. Remove the protective backing from the kit label. Place the label on a clean area near the center of the top cover. The label indicates that the kit has been installed.

Verify Operation

Power on the VX4428 to run the self test. Verify that there are no error codes. If necessary refer to the VX4428 User manual for further information regarding the self test.

End of document

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