Foxboro AG100VK

Retrofit Kit for GCIO Touchscreen Controller PWA

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I/A Series®
Retrofit Kit for GCIO Touchscreen Controller PWA

Kit Part Number: AG100VK

Kit Inventory

Kit AG100VK contains the following parts:

Part Number	Description	Quantity
P0922AA	Replacement touchscreen controller PWA (replaces P0913PU)	1
B0126KU	Label, Information, Change Record	1
SI 0-00515	Special Instructions	1

Purpose

This document describes the procedure necessary to replace touchscreen controller PWA (P0913PU) with the new PWA (P0922AA) in Graphics Controller Input Output (GCIO) Interface modules used with the following 21-inch monitors.

Table 1. 21-Inch Monitors with Internal Touchscreen Controller PWAs

Workstation Monitor	Color	Northern Hemisphere	Southern Hemisphere
21-Inch Workstation Monitor with Touchscreen (embedded in MIW)	Light Beige	P0918VP	P0918WF
	Gray	P0918VR	P0918WH
21-Inch Workstation Monitor with Touchscreen (Tabletop)	Light Beige	P0918VK	P0918WB
	Gray	P0918VM	P0918WD

These monitors have a built-in touchscreen controller PWA, unlike in previous versions of this product, where the PWA was mounted inside the GCIO.

GCIO Interface modules provide the link between the touchscreen and the processor. Since the new touchscreen contains its own internal controller PWA, existing GCIOs in the field are incompatible with these new monitors.

You must install the new touchscreen controller PWA (P0922AA) into any existing GCIOs (manufactured before July 2000) which need to interface to the new monitors, listed in Table 1.

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Reference Document

For further details concerning the installation of a GCIO unit, refer to the *System Equipment Installation* document (B0193AC).

Reason for Upgrade

Perform this hardware upgrade to ensure compatibility between generations of monitors with touchscreens and GCIOs.

Testing and Installation Procedures

⚠ CAUTION

Before disconnecting any cables or removing power, consider the impact of interrupting a process.
For 50 Series processors, refer to the applicable system shutdown procedure in the *Systems Operating Guide* document (B0193CR).
For 70 Series processors, refer to the Hardware and Software Specific Instructions for 70 Series Processors document included with your processor.
Loss of access to annunciator and/or alphanumeric keyboards attached to the GCIO being upgraded occurs during the retrofit process.

There are two types of GCIOs, each with a Modular Industrial Workstation (MIW) version and a desktop version:

- WP10/WP20/WP30 type (see Figure 1)
- 50 Series/70 Series (see Figure 2).

Installation of the PWA into GCIOs of either type vary slightly.

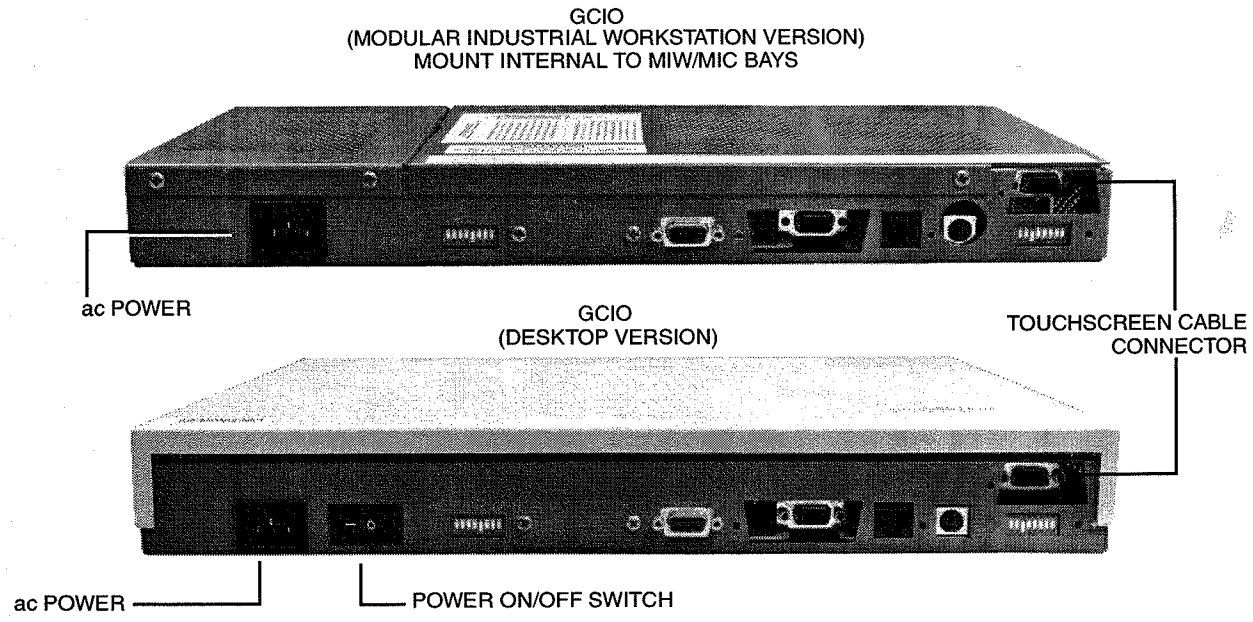

Figure 1. WP10/WP20/WP30 GCIO Units

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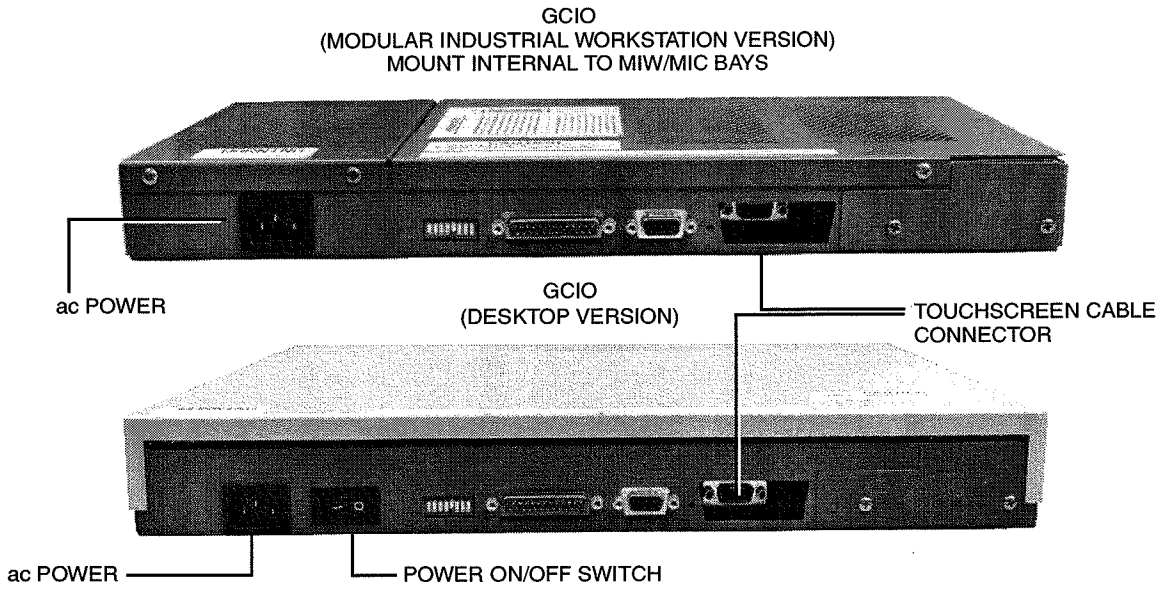

Figure 2. 50 Series/70 Series GCIO Units

Proceed as follows:

1. Power down the GCIO(s) by positioning the GCIO Power switch (if present) to OFF, and removing the ac power cable (see Figure 1 and Figure 2).
2. Unplug the (captive or detachable) monitor touchscreen cable from the back of the affected GCIO.
3. For WP10/20/30 types of GCIOs (see Figure 1), remove the GCIO from the MIW bay.
4. Remove the GCIO cover by loosing the Phillips head screws which secure the cover. MIW versions of GCIOs have two screws, and desktop versions have four screws.

   In WP10/20/30 types of GCIOs, the PWA is mounted upside-down.
   In 50 Series/70 Series types of GCIOs, the PWA is mounted right-side up.
   This is shown in Figure 3.

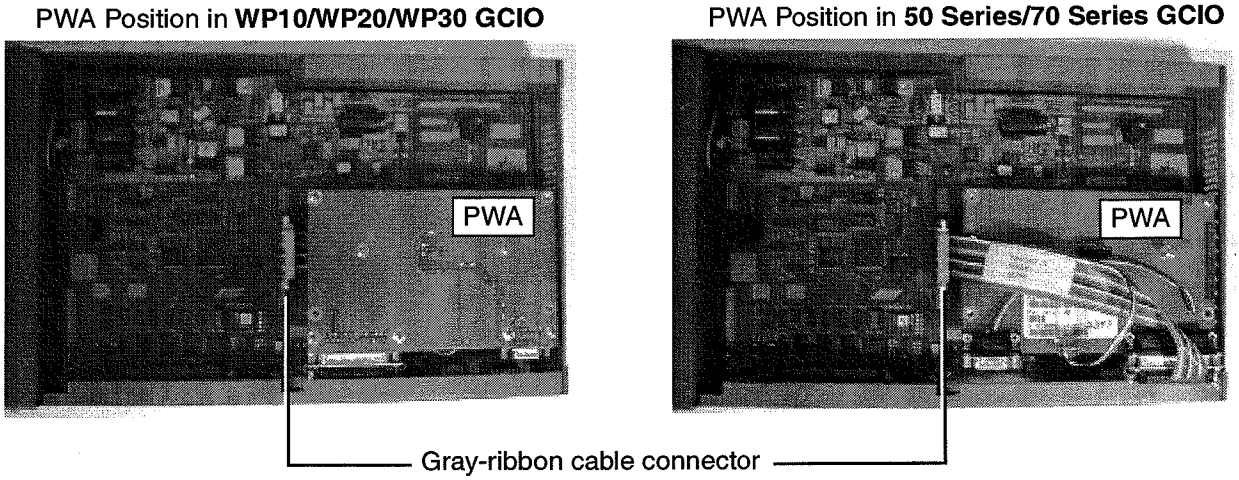

Figure 3. PWA Positions in GCIO Units

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5. Unplug the gray ribbon-cable connector from the motherboard (see Figure 3).
6. Remove the four mounting screws from each corner of the PWA.
7. Remove PWA. You may discard or save this PWA, in the event that the GCIO may later be used to interface with CRTs of an earlier model than those listed in Table 1.
8. Mount the new PWA (P0922AA) in the GCIO in the same position as its predecessor.
9. Plug the gray ribbon-cable connector into the motherboard (see Figure 3).
10. Attach the GCIO cover to the GCIO.
11. For WP10/20/30 types of GCIOs, reinstall the GCIO into the MIW bay.
12. Attach the touchscreen cable to the touchscreen cable connector (see Figure 1 and Figure 2) in the GCIO, and to the 21-inch monitor.
13. Turn the GCIO on.
14. Perform a touchscreen cursor calibration from the Display Manager or FoxDraw menu. Verify that all functionality has returned.
15. Fill and out and apply the label B0126KU.

The retrofit is now complete.

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