

Conversion Instructions for Foxboro SPEC 200 Conversion Accessory to MODCELL 2051R Accessory Part Numbers: 2051FZ10000A, 2051FZ10001A

INTRODUCTION

This MODCELL 2051F conversion accessory allows a MODCELL 2051R to fit into the Foxboro SPEC 200 instrument shelf. Depending on the kit purchased, a MODCELL 2051R may replace all elements of the SPEC 200 loop including; input, output, alarm, linearization cards, etc., or, replace only the display and control card elements (intermediate installation). Intermediate installation does not require relocation of field wiring and front panel change out will be little time if instrument setup and configuration is done prior to panel installation.

If field wiring and input/output cards are to be retained in the Foxboro Nest, the direct connect cable option must be used. If field wiring connections are to be made at the back of the MODCELL 2051R controller, the direct connect cable is not required.

Parts Included in Conversion Accessory

- base bracket (1)
- spring latches (2)
- 1/8 inch Pop-rivet (6)
- direct connect cable (optional, required for intermediate installation) (1)
- Tyrap™ (1)
- Instructions (1)

Tools Required

- Pop-rivet gun
- Instrument screwdriver (small blade)

BRACKET MOUNTING PROCEDURE

The following steps describe how to install the Foxboro conversion brackets on to the instrument. Removal of the MODCELL 2051R instrument from the instrument housing is not necessary.

1. Remove the contents of the conversion kit from its package and examine that all parts are present.
2. Locate the large black bracket to the bottom of the MODCELL 2051R, aligning the four 1/8 inch holes. Orient the bracket as shown in Figure 1. Insert a pop rivet into each of the four holes and secure the bracket in place using the pop-rivet gun.
3. Stack the two top latch brackets one on top of the other so the 1/8 inch holes align. Align the brackets to the top front two 1/8 inch holes of the MODCELL 2051R instrument. Orient the bracket as shown in Figure 1. Secure this bracket in place with the two remaining 1/8 inch pop-rivets.

2051F Conversion Instructions for Foxboro SPEC 200

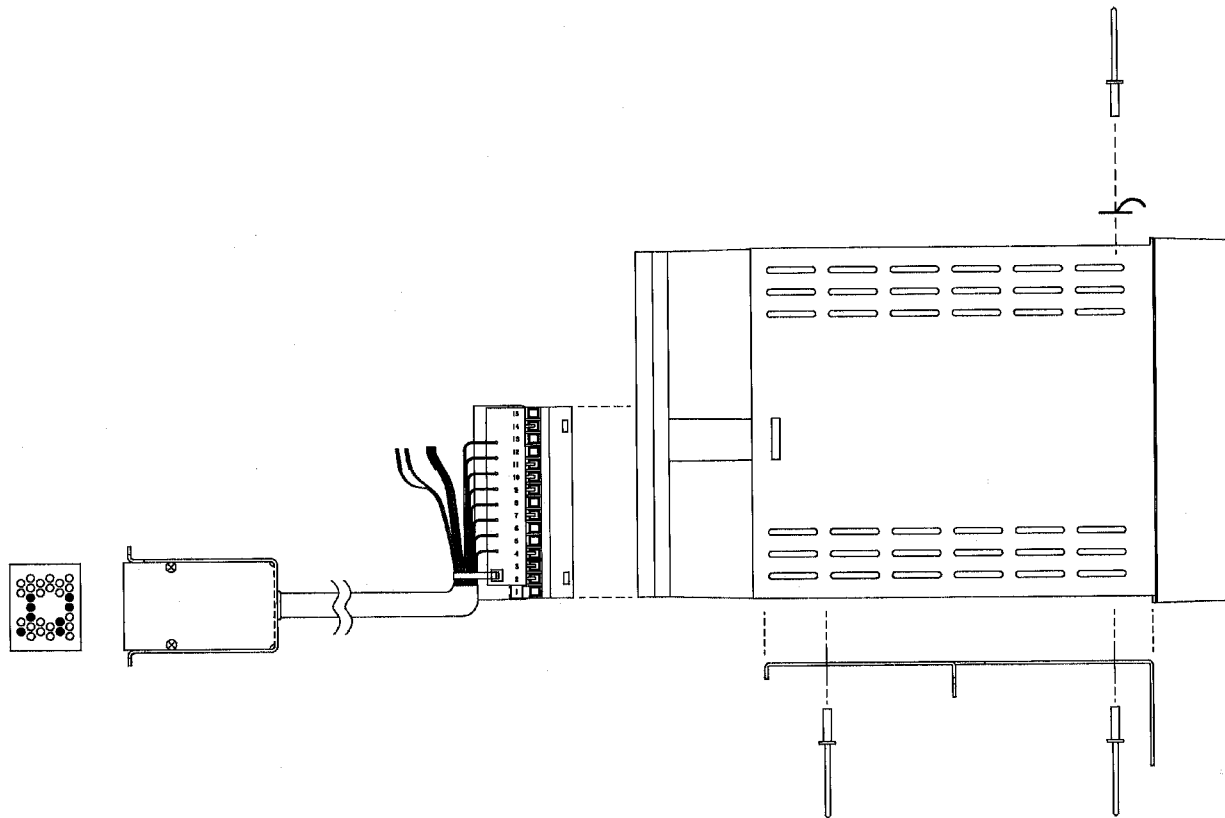


Figure 1. 2051R with Direct Connect Cable

SPEC 200 DIRECT CONNECT CABLE INSTALLATION

1. If field wiring is to be connected directly to the back of the MODCELL 2051 instrument, proceed directly to **Panel Installation**. Terminate field connections describe in the I/O instructions in IB-23C650-___. If the intermediate installation is being employed, continue with steps 2 through 9.
2. Remove the termination cover from the back of the MODCELL 2051.
3. Insert the termination end of the direct connect cable into the lower left termination block as shown in Figure 2. With the cable facing down, the lowest pin of the terminator should be inserted in terminal position NO. 2. Tighten all termination screws on the associated pins of the terminator.
4. Dress the cable down and out the bottom of the termination assembly. Using the Tyrap provided, secure the cable to the termination cover post as shown in Figure 2.
5. Replace the termination assembly cover and tighten in place.
6. Apply power to the MODCELL 2051R.
7. Enter the "Base Config **Menu**" (see IB-23C650-___), select "volt" as the input type for the process input.

2051F Conversion Instructions for Foxboro SPEC 200

8. In the "Milliamp Input **Menu**", configure the analog input for an electrical input of 0 to 5 volts (the terminator has proportionately reduced the 0 to 10 Vdc signal to 0 to 5 Vdc). In the "Milliamp Output **Menu**", configure the control output current to 0 to 40 milliamps. The terminator has a precision resistor on the output to generate 0-10 Vdc with a 0 to 40 mA output current.
9. Configure other options and features in the instrument as required for the application.

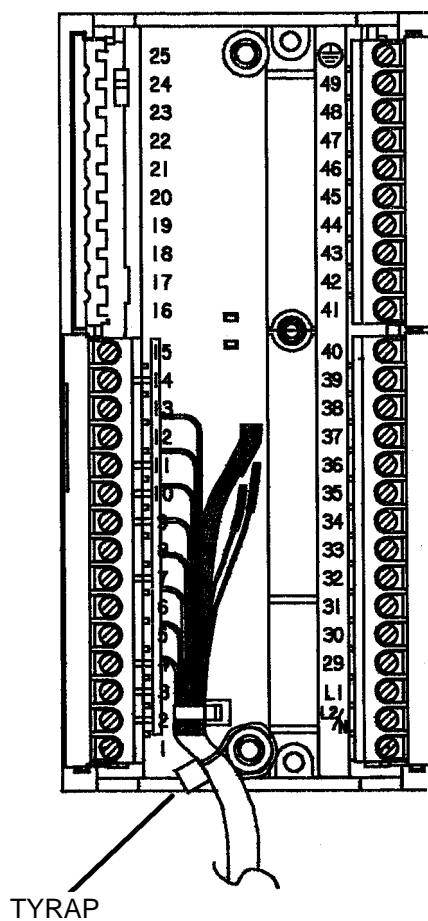


Figure 2. 2051R Direct Connect Cable Wiring (Cover Removed)

PANEL INSTALLATION

The following steps describe intermediate installation replacement of the Foxboro SPEC 200 instrument **when using the direct connect cable**. If making field connections directly at the back of the MODCELL 2051R, Follow the panel instructions below for field terminations.

Caution!!

Be sure all power has been disconnected at the source before attempting terminations.

1. Remove the SPEC 200 "controller" card from its position in the Foxboro Nest. Remove only the card, not the Type 2AC module. The card is no longer required.

2051F Conversion Instructions for Foxboro SPEC 200

2. Remove the SPEC 200 instrument display from its shelf position. Disconnect the instrument cable from the back of the display.
3. Connect the direct connect cable of the MODCELL 2051R into the SPEC 200 instrument cable. Take care for correct orientation of pins.
4. Slide the MODCELL 2051R into the shelf position until the top bracket secures the instrument firmly in place. If instrument power is not received through the instrument cable, connect power to the MODCELL 2051R terminal block.

Panel Installation Procedure

1. The following steps describe intermediate installation replacement of the Foxboro SPEC 200 instrument **when making connections directly at the back of the MODCELL 2051R instrument.**
2. For quickest change-out, pre configure the MODCELL 2051R controller prior to panel installation.
3. Remove the SPEC 200 instrument display from its shelf position. Disconnect the instrument cable from the back of the display. You may elect to remove the instrument cable all together or coil the cable and leave in the back of the tray.
4. Make power and field connections per I/O instructions in IB-23C650-__.
5. Apply power and tune the instrument as required for the loop.

The Company's policy is one of continuous product improvement and the right is reserved to modify the information contained herein without notice, or to make engineering refinements that may not be reflected in this bulletin. Micromod Automation assumes no responsibility for errors that may appear in this manual.

© 2004 MicroMod Automation, Inc.

Printed in USA



92902-93, Issue 2 04/2005

MicroMod Automation, Inc.
75 Town Centre Drive
Rochester, NY USA 14623
Tel. 585-321 9200
Fax 585-321 9291
www.micromodautomation.com