



FLC Eight-Position Universal Mounting Shelf DS3 Adapter Kit Installation Instructions

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INTRODUCTION

These installation instructions provide the procedures for installing the DS3 Adapter Kit in the Fiber Loop Converter Eight-Position Universal Mounting Shelf. The DS3 Adapter Kit is required whenever a DS3 Fiber Loop Converter is installed in the Eight-Position Universal Mounting Shelf. The DS3 adapter is a wired assembly that consists of a connector mounting plate, eight coaxial cables, MPU connector/cable assembly, and four printed circuit boards.

Revision History

ISSUE	DATE	REASON FOR CHANGE
1	06/92	Original
2	09/92	Reissued to provide installation instructions for the replacement front panel which is included with the DS3 adapter kit.
3	11/93	Minor editorial corrections.
4	07/95	Minor editorial corrections.
5	05/96	Minor editorial corrections.
6	07/98	Minor editorial corrections.
7	01/99	Updated to meet current format standards (non-technical changes) and show new ADC corporate address.

Admonishments

Important safety admonishments are used throughout this manual to warn of possible hazards to persons or equipment. An admonishment identifies a possible hazard and then explains what may happen if the hazard is not avoided. The admonishments — in the form of Dangers, Warnings, and Cautions — must be followed at all times. These warnings are flagged by use of the triangular alert icon (seen below), and are listed in descending order of severity of injury or damage and likelihood of occurrence.



Danger: *Danger is used to indicate the presence of a hazard that **will** cause severe personal injury, death, or substantial property damage if the hazard is not avoided.*



Warning: *Warning is used to indicate the presence of a hazard that **can** cause severe personal injury, death, or substantial property damage if the hazard is not avoided.*



Caution: *Caution is used to indicate the presence of a hazard that **will** or **can** cause minor personal injury or property damage if the hazard is not avoided.*

1 DS3 ADAPTER KIT INSTALLATION PROCEDURE

In this instruction sheet, the shelf is referred to as having either rear access or front access DS3 coax connections. Rear access means that the DS3 coax connections are made from the rear of the shelf. Front access means that the DS3 coax connections are made from the front of the shelf.

Some shelves may be equipped with a Model FLC A10MPU Micro Processor Unit (MPU). The MPU is an optional controller module that provides an interface to a Telemetry Byte Oriented System (TBOS) alarm system. Additional installation steps are included for MPU-equipped shelves.



Warning: *To prevent electrical shock, never install Fiber Loop Converter (FLC) equipment in a wet location or during a lightning storm. When installing or modifying telephone lines, disconnect the lines at the network interface before working with uninsulated lines or terminals.*



Caution: *Use care when making connections with power applied to the mounting chassis.*

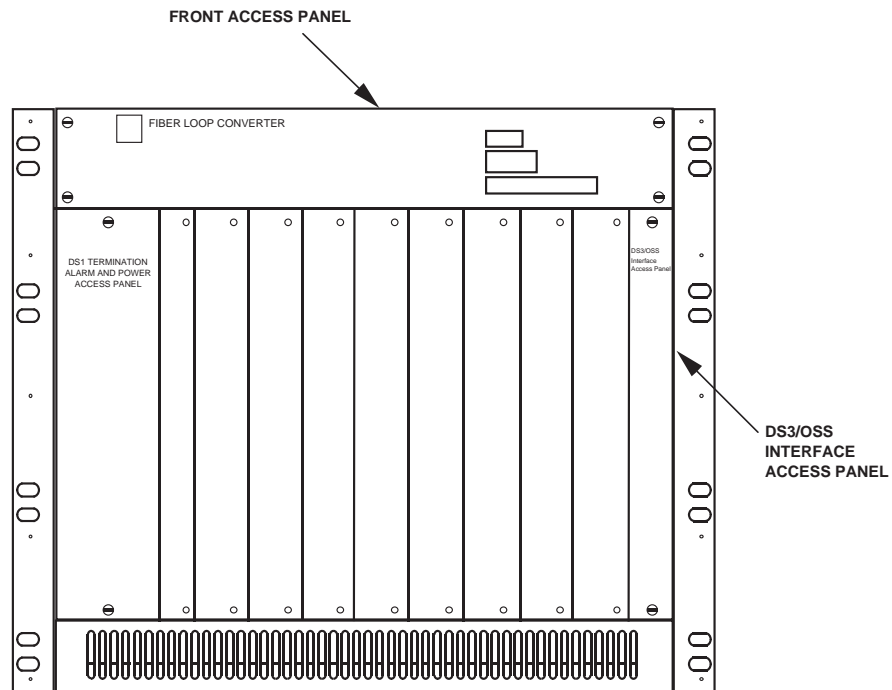


Caution: *Observe precautions for handling electrostatic sensitive devices such as printed circuit boards.*

Use the following procedure to install the DS3 Adapter Kit:

- (a) Remove the shelf's rear panel to provide access to the back plane.
- (b) If the shelf utilizes front access DS3 coax connections, remove the DS3/OSS interface access panel from the front of the shelf (see [Figure 1](#)).
- (c) Dress out and organize the coaxial cables of the DS3 Adapter so it is ready for mounting as shown in [Figure 2](#). Identify the circuit number of each circuit board and mark that number on the board.
- (d) An MPU interface panel, shown in [Figure 3](#), is included with MPU-equipped shelves. If an MPU interface adapter panel is installed in the mounting shelf, tag and then remove the TBOS alarm system lead wires from the wire-wrap pins. Remove the MPU interface adapter panel and the attached cable assembly from the shelf.
- (e) If the shelf utilizes rear access DS3 coax connections, proceed to step (f). If the mounting shelf has front access DS3 coax connections, use the following procedure to install the connector mounting plate:
 - Working from the rear of the shelf, slide the connector mounting plate (front of plate facing toward front) into the slot on the far left side until mounting plate is positioned near the front of the shelf.
 - From the front of the shelf, secure the connector mounting plate (use four screws provided) to the four mounting tabs located approximately 2 inches in from the front of the shelf.
 - Skip step (f) and proceed to step (g).
- (f) Install the connector mounting plate as specified in the following procedure:
 - Working from the rear side of the mounting shelf, position the connector mounting plate (front of plate must face toward rear of the shelf) in the slot on the far left side of the shelf.
 - Secure the connector mounting plate (use four screws provided) to the four mounting tabs located approximately 2 inches in from the rear of the shelf.
- (g) Install the four printed circuit boards on the back plane at the points shown in [Figure 4](#). Note that each pair of standoffs on the back plane fits into a corresponding pair of holes in each printed circuit board. Make sure that each circuit board is matched to the correct circuit connectors.
- (h) Align the connector pins with the corresponding connector pin sockets and then push each printed circuit board firmly into place until connector is fully seated and standoff locking tabs are latched.
- (i) Dress and organize the coaxial cables as shown in [Figure 5](#).
- (j) Plug the MPU/TBOS interface connector into the J26 connector on the back plane as shown in [Figure 5](#).
- (k) If the mounting shelf was equipped with an MPU, re-connect the TBOS lead wires to the wire-wrap pins on the connector mounting plate.

- (l) If the universal mounting shelf is catalog number FRM-FAC08A, FRM-FAW08A, FRM-RAC08A, or FRM-RRW08A continue with Step m. If the universal mounting shelf is a newer model with a new front access panel discard the replacement front access panel and go to Step q.
- (m) Remove the front access panel (see **Figure 1**) from the front of the shelf.
- (n) Remove the fiber lever from the back side of the front access panel.
- (o) Attach the fiber lever to the back side of the replacement front access panel included with the kit.
- (p) Install the replacement front access panel (with EMI gasket) on the front of the shelf and discard the original front access panel.
- (q) Reinstall all remaining panels (front and rear) that were removed during the installation.



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Figure 1. FLC Eight-Position Universal Mounting Shelf

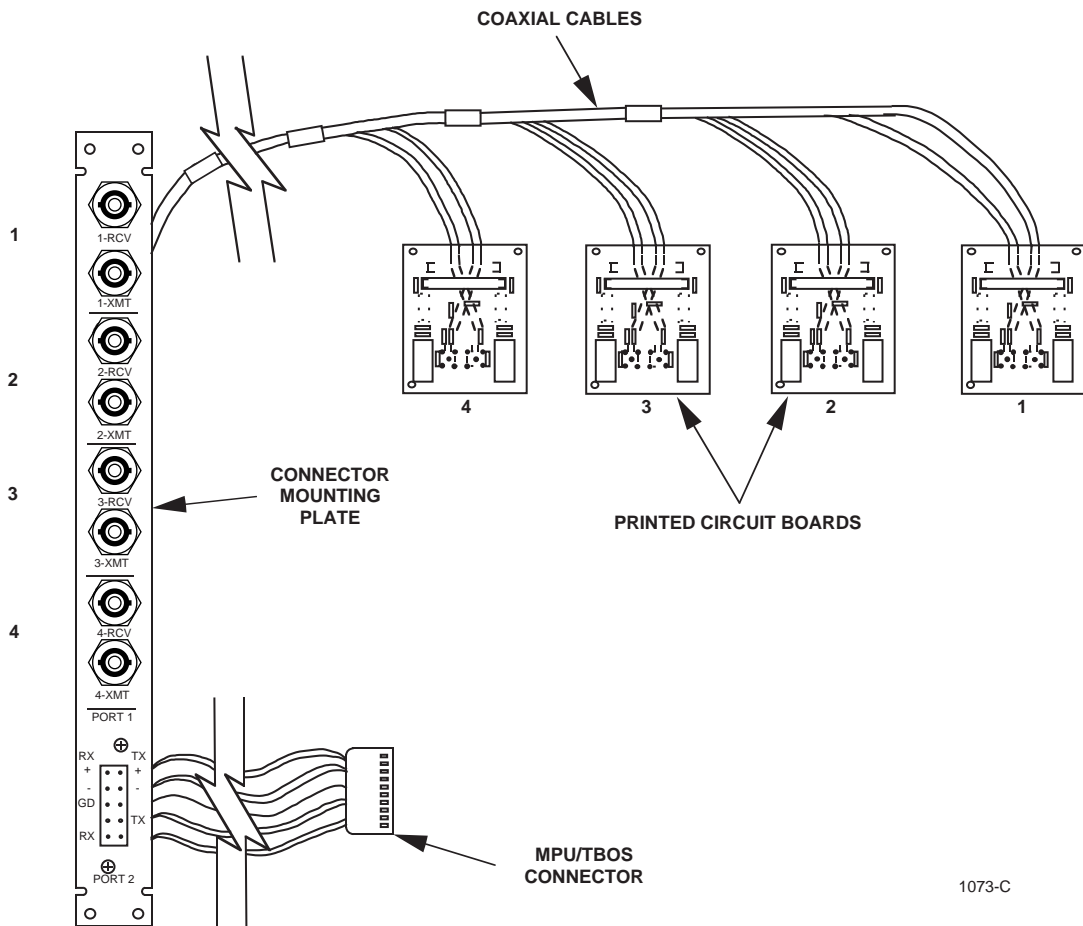


Figure 2. DS3 Adapter Kit

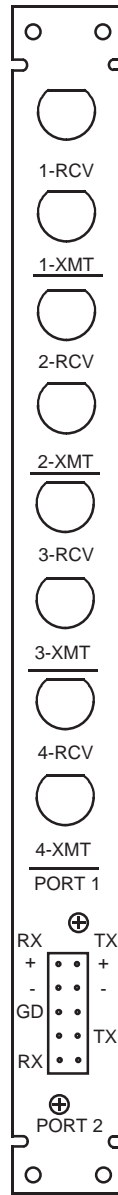
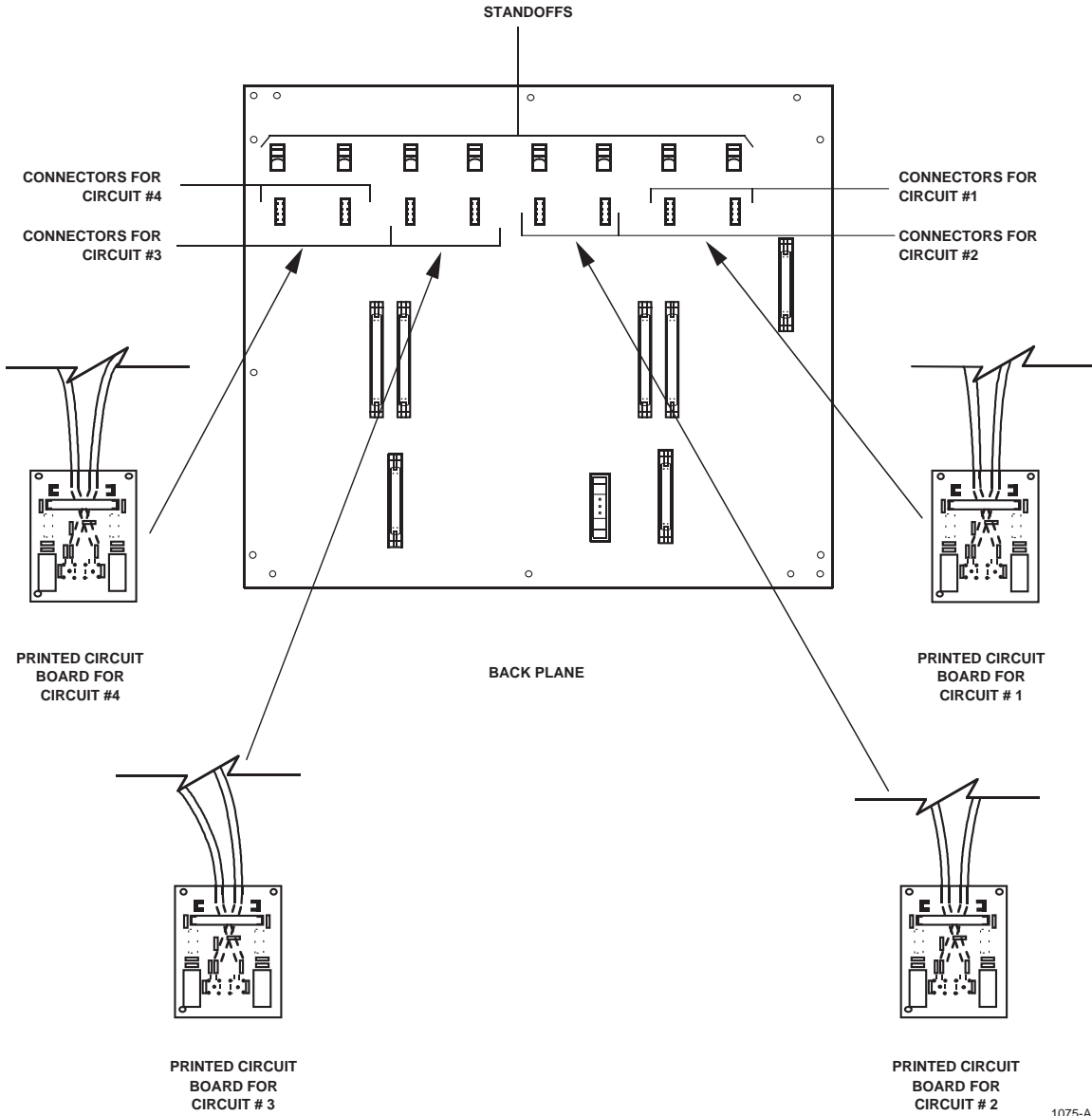


Figure 3. MPU Interface Adapter Panel



1075-A

Figure 4. Back Plane

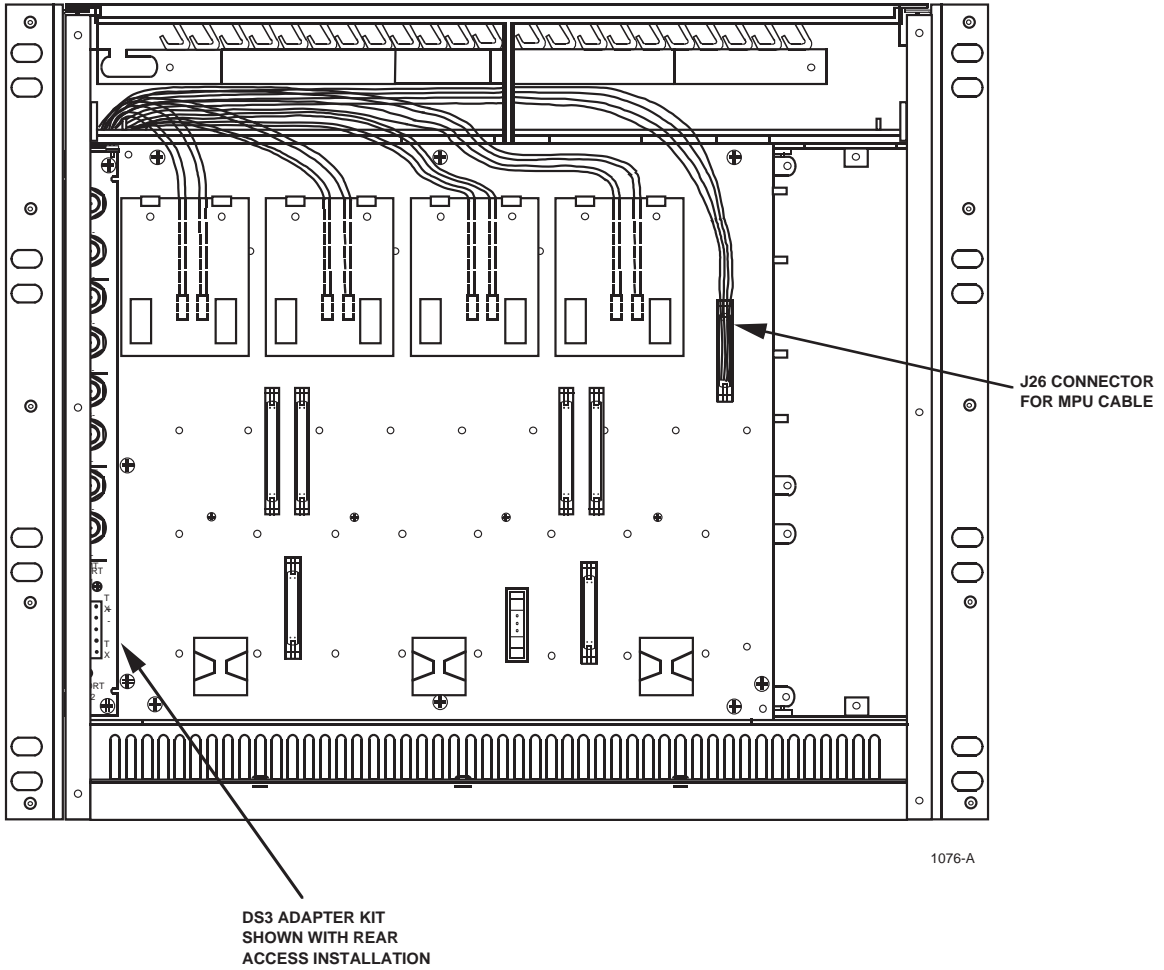


Figure 5. Cable Routing

2 CUSTOMER INFORMATION AND ASSISTANCE

For customers wanting information on ADC products or help in using them, ADC offers the services listed below. To obtain any of these services by telephone, first dial the central ADC telephone number, then dial the extension provided below.

The central number for calls originating in the U.S.A. or Canada is **1-800-366-3891**. For calls originating outside the U.S.A. or Canada, dial country code "1" then dial **612-946-3000**.

Sales Assistance Extension 3000	<ul style="list-style-type: none"> • Quotation Proposals • Ordering and Delivery • General Product Information
Systems Integration Extension 3000	<ul style="list-style-type: none"> • Complete Solutions (from Concept to Installation) • Network Design and Integration Testing • System Turn-Up and Testing • Network Monitoring (Upstream or Downstream) • Power Monitoring and Remote Surveillance • Service/Maintenance Agreements • Systems Operation
BBG Technical Assistance Center Extension 3223 E-Mail: technical@adc.com	<ul style="list-style-type: none"> • Technical Information • System/Network Configuration • Product Specification and Application • Training (Product-Specific) • Installation and Operation Assistance • Troubleshooting and Repair/Field Assistance
Product Return Department Extension 3748 E-Mail: repair&return@adc.com	<ul style="list-style-type: none"> • ADC Return Authorization number and instructions must be obtained before returning products.

Product information may also be obtained using the ADC web site at **www.adc.com** or by writing ADC Telecommunications, Inc., P.O. Box 1101, Minneapolis, MN 55440-1101, U.S.A.

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