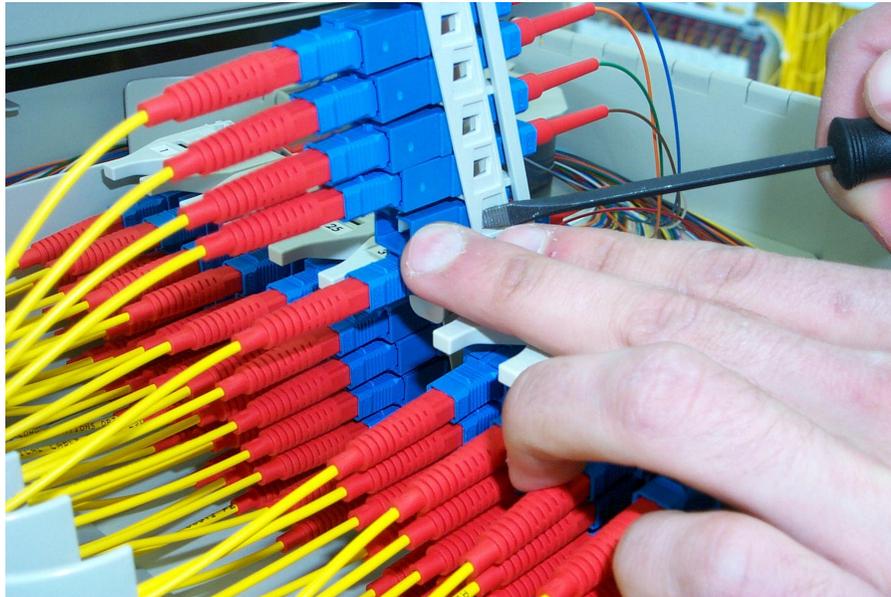




# NG3™ High-Density Fiber Distribution System Adapter Replacement Instructions



Removing Old Adapter

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## INTRODUCTION

This manual describes how to replace an adapter in a partially cabled NG3 panel. Two main tasks are involved, removing the old adapter and installing a new adapter. Connector inspection and cleaning are also required, but inspection and cleaning instructions are not provided here.

## Revision History

ISSUE	DATE	REASON FOR CHANGE
Issue 1	03/2003	Original.

## Trademark Information

ADC is a registered trademark of ADC Telecommunications, Inc.  
 NG3 is a trademark of ADC Telecommunications, Inc.

## RELATED PUBLICATIONS

NG3 High-Density Fiber Distribution Frame System 72-Position Hinged Termination Panel User Manual	90-297
NG3 High-Density Fiber Distribution Frame System User Manual	90-298

## ADMONISHMENTS

Important safety admonishments are used in this manual to warn of possible hazards to persons or equipment. The admonishments — in the form of Dangers, Warnings, and Cautions — must be followed at all times. These warnings are flagged by use of a triangular alert icon (shown 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.*

## GENERAL SAFETY PRECAUTIONS



**Danger:** *Infrared radiation is invisible and can seriously damage the retina of the eye. Do not look into the ends of any optical fiber. Do not look directly into the optical adapters of the adapter packs. Exposure to invisible laser radiation may result. An optical power meter should be used to verify active fibers. A protective cap or hood **MUST** be immediately placed over any radiating adapter or optical fiber connector to avoid the potential of dangerous amounts of radiation exposure. This practice also prevents dirt particles from entering the adapter or connector.*

**Caution:** *Placing a load in excess of 20 pounds onto an open drawer will result in misalignment or damage to the drawer.*

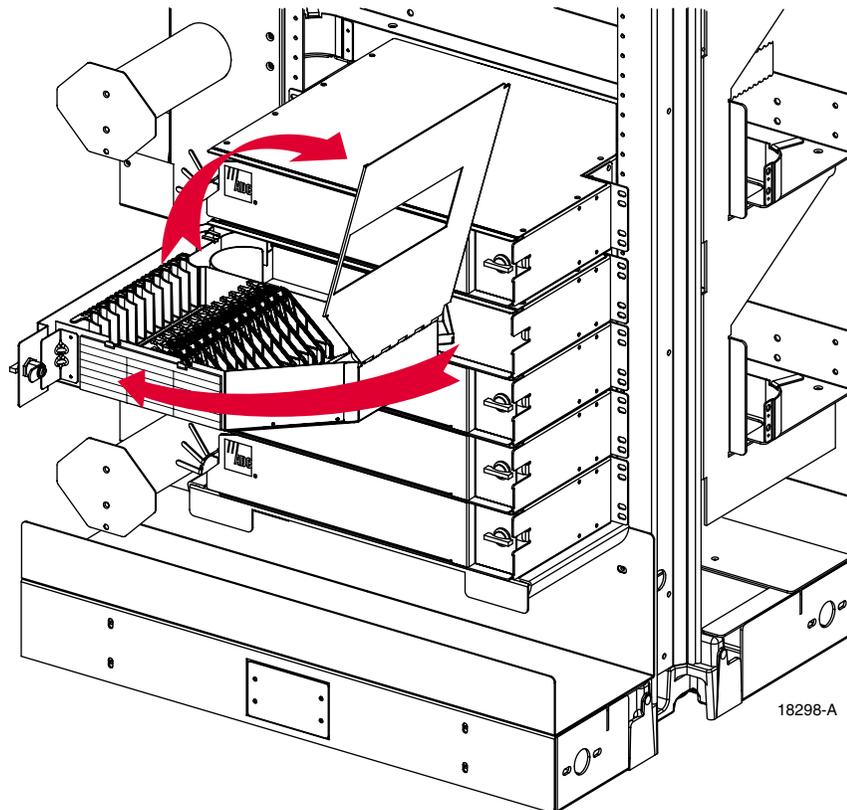
## 1 PROCEDURE

If an individual adapter becomes damaged or contaminated, it can be replaced. Any connectors connected to the adapter must first be removed. The adapter can then be released from the adapter pack.

Use the following procedure to replace an adapter:

1. Open the panel as follows (Figure 1):
  - a. Turn the door latch 90 degrees counterclockwise.
  - b. Swing out the drawer.
  - c. When the hinged drawer comes to rest in a position 90 degrees out from the panel chassis, lift off the top cover. Allow the cover to hang down beside the drawer when accessing the adapter packs or routing fibers within the drawer.

**Caution:** *Placing a load in excess of 20 pounds onto an open drawer will result in misalignment or damage to the drawer.*



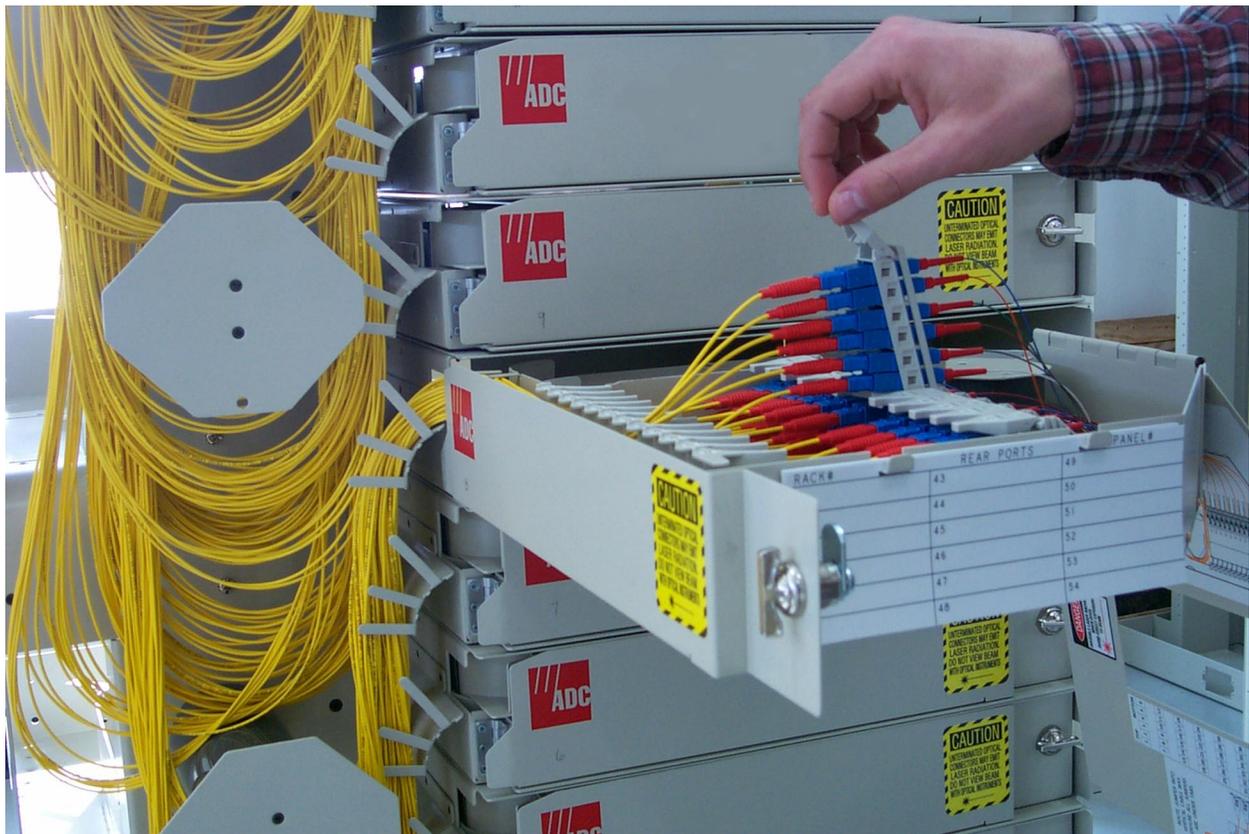
**Figure 1. Opening the Hinged Drawer**

2. Locate the adapter to be replaced.
3. Verify that the optical fibers that you are about to disconnect are not carrying an active signal. Inactivate the signal before proceeding.



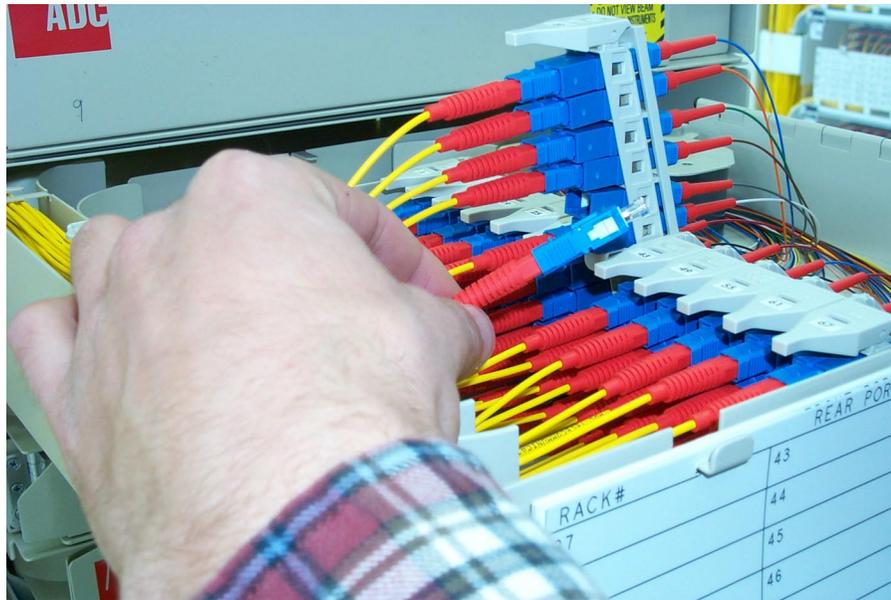
**Danger:** *Infrared radiation is invisible and can seriously damage the retina of the eye. Do not look into the ends of any optical fiber. Do not look directly into the optical adapters of the adapter packs. Exposure to invisible laser radiation may result. An optical power meter should be used to verify active fibers. A protective cap or hood MUST be immediately placed over any radiating adapter or optical fiber connector to avoid the potential of dangerous amounts of radiation exposure. This practice also prevents dirt particles from entering the adapter or connector.*

4. Access the adapter pack as follows (Figure 2):
  - a. Lift up the release tab on top of the adapter pack.
  - b. Slide the adapter pack into the position shown.



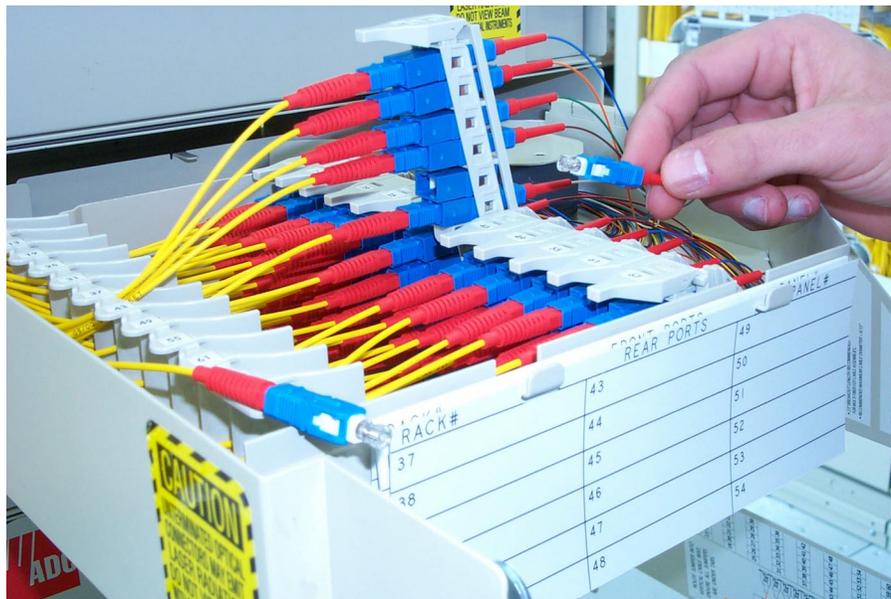
**Figure 2. Accessing Adapter Pack**

5. Remove the front side connector from the adapter pack and immediately cover it with a dust cap, as shown in [Figure 3](#).



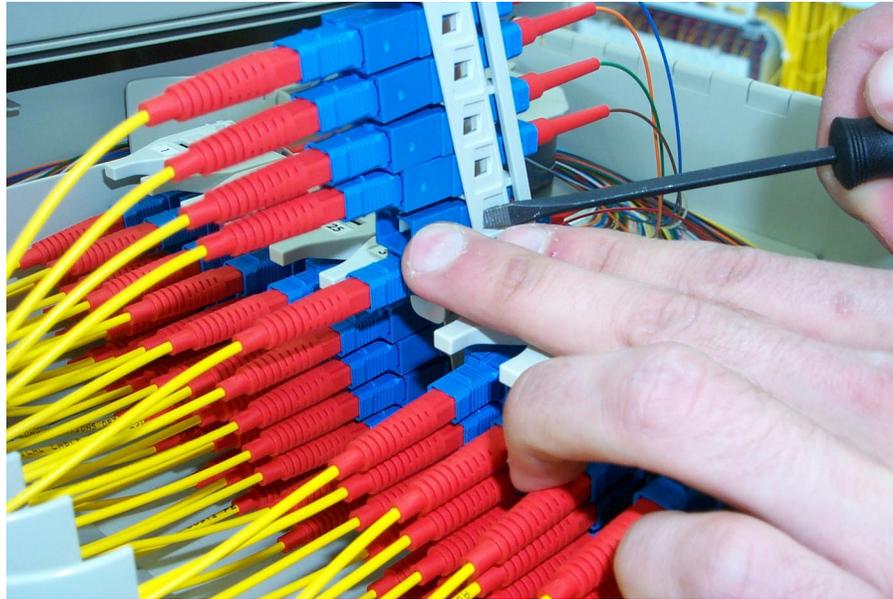
**Figure 3. Removing Front Side Connector**

6. Set aside the front side connector. Remove the rear side connector and immediately cover it with a dust cap, as shown in [Figure 4](#).



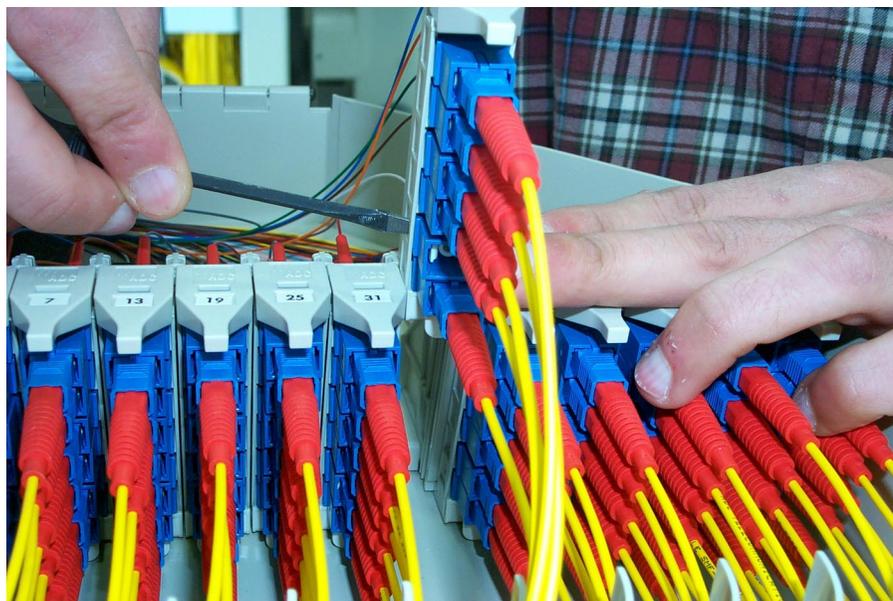
**Figure 4. Removing Rear Side Connector**

7. Set aside the rear side connector. Using a small flat screwdriver, press against the adapter spring clip in the location shown in [Figure 5](#). While pressing in the spring clip, push the adapter gently with your finger, preventing the spring clip from snapping back into position.



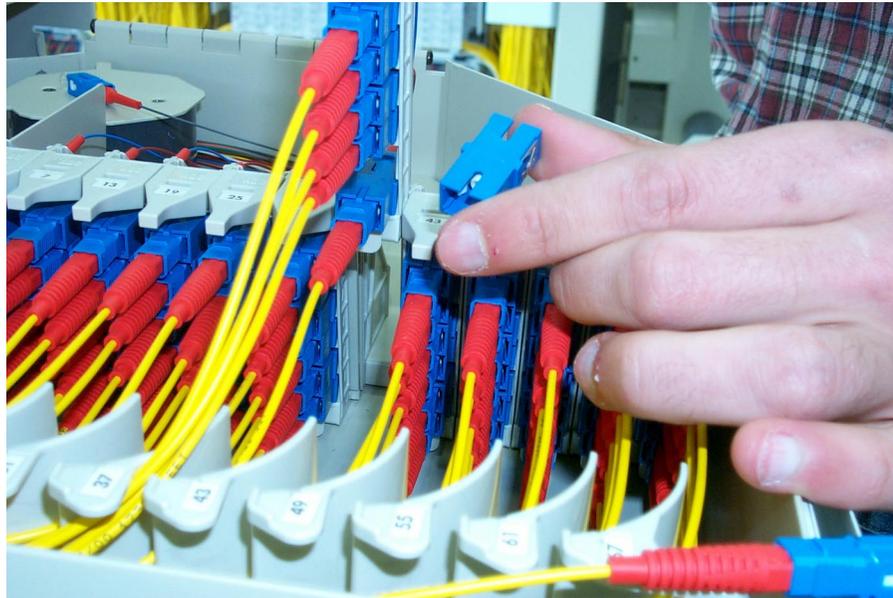
**Figure 5. Pressing in Spring Clip on Adapter**

8. Using the small flat screw driver, press in the spring clip on the other side of the adapter, as shown in [Figure 6](#). This will free the adapter from the adapter pack.



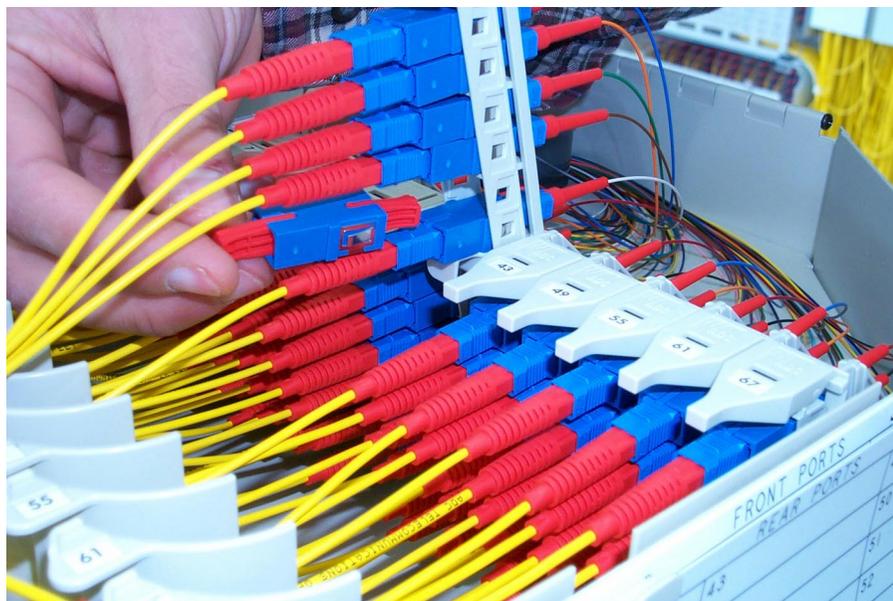
**Figure 6. Pressing in Spring Clip on Other Side of Adapter**

9. Remove the adapter fully from the adapter pack by gently sliding the adapter forward, as shown in [Figure 7](#).



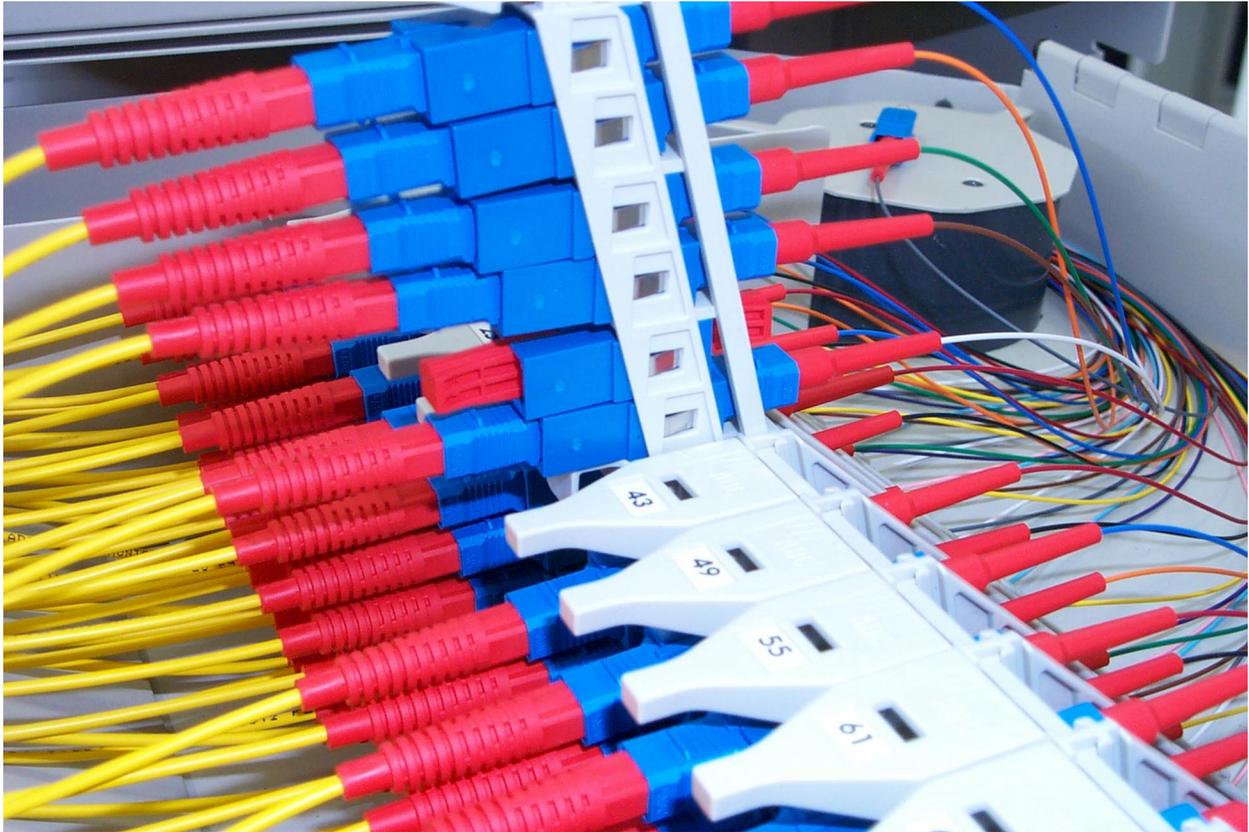
**Figure 7. Removed Adapter**

10. Position the new adapter for installation as shown in [Figure 8](#).
  - ▶ **Note:** Orient the slots on the entry end of the new adapter in the same position as the slots on the adapters that are already in place (usually facing “up”).



**Figure 8. Positioning New Adapter for Installation**

11. Slide the new adapter into the adapter pack until it clicks into place, as shown in [Figure 9](#).



**Figure 9. Installed New Adapter**

- ▶ **Note:** Always clean and inspect the disconnected connectors before re-connecting them to the adapter. For inspection and cleaning guidelines, refer to the NG3 frame system user manual, ADCP-90-298.
12. Remove the dust caps from the new adapter and from the connectors that were set aside when the old adapter was removed.

13. Re-connect the connectors. **Figure 10** shows the adapter pack with the connectors installed.



**Figure 10. Installed Connectors**

14. Return the adapter pack to its home position.
15. Close the panel as follows:
  - a. Check to ensure that all unterminated adapters are capped with dust covers. Check that all adapter packs have been returned to their home positions, seated fully down.
  - b. Close the top cover of the drawer.
  - c. Close the hinged drawer.
  - d. Turn the door latch a quarter turn clockwise to secure the door in the closed position.

## 2 CUSTOMER INFORMATION AND ASSISTANCE

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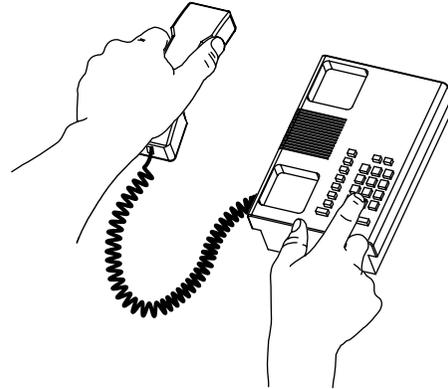
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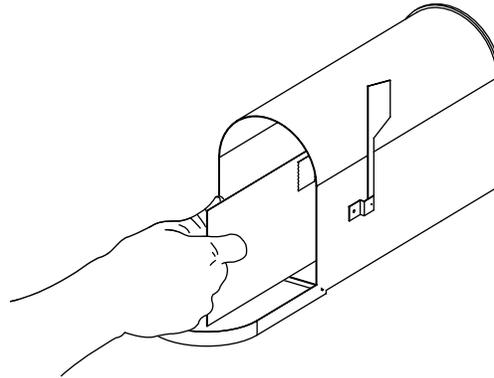
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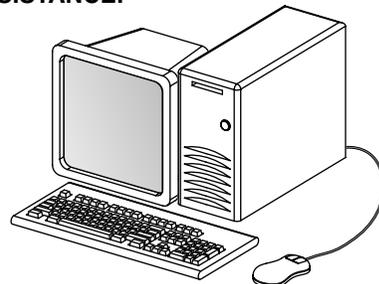

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