

1. General

This document describes the recommended procedure for installing Integrated Trunk Modules (ITMs) shown in Figure 1 into Pretrium® 4U Housings (p/n PCH-04U).

There are two versions of the housing:

- Initial versions of the PCH-04U housing can be identified if they have studs on the inside walls. These studs must be removed to allow installation of the ITM module.
- Current versions of the housing have no internal studs and require no modifications.

Follow instructions appropriately depending upon which version of the housing you are using.

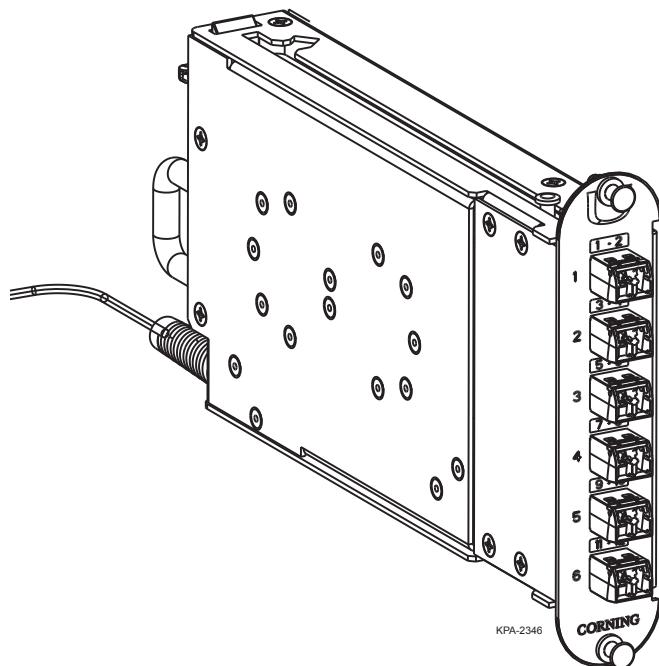


Figure 1

2. Tools and Materials Required

- Cleaning tools, p/n CLEANER-PORT-LC and p/n 2104466-01, purchased separately
- Small cable ties (provided)

The following tools are required to alter the initial version of the PCH-04U housing to accommodate the module:

- Phillips-head screwdriver
- Channel-lock pliers
- Adjustable wrench

3. Installation

3.1 Prepare the Housing (Initial Version)

If you are using the current version of the PCH-04U housing, skip to Section 3.1.2.

3.1.1 Removing Threaded Studs and Threaded Nut

- Step 1:** Remove the rear door of the housing and set aside.
- Step 2:** Remove each of the cable entry plates by removing the five screws in each plate using a Phillips-head screwdriver and set all parts aside (Figure 2).
- Step 3:** Remove both threaded studs from each side of the housing by positioning the closed end of a wrench around the threaded stud on the outside of the housing to create a gap for the threaded stud to be pushed into. Use channel-lock pliers to press the threaded stud through the gap and remove from the housing. Repeat this step until all four threaded studs are removed (Figure 3).

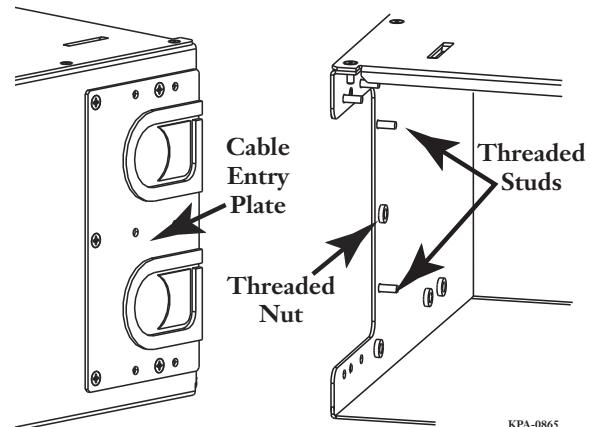


Figure 2

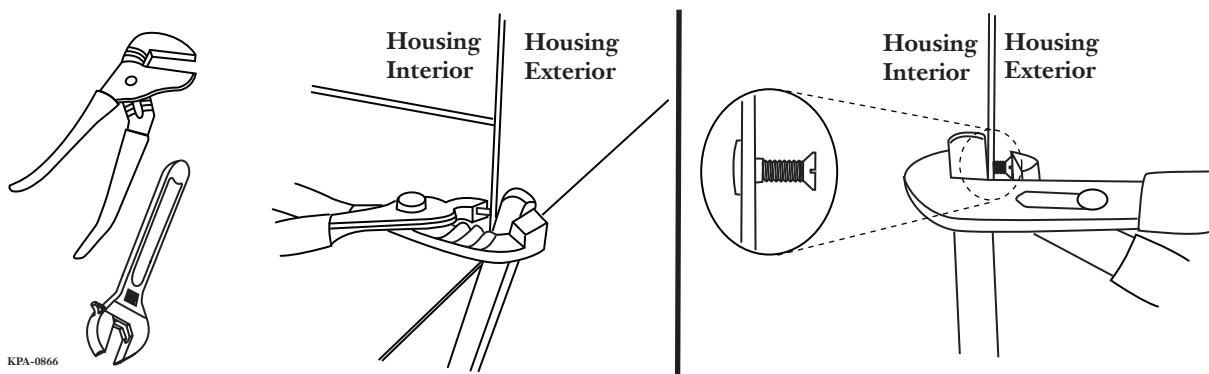


Figure 3

- Step 4:** Remove the threaded nut centered vertically on the opening by threading a stud removed from the previous step into the threaded nut from the outside of the housing. Remove the threaded nut as described in Step 3.

IMPORTANT: It is necessary for the remaining four threaded nuts to stay in the housing to allow the cable entry plate to be reinstalled.

- Step 5:** Reinstall the cable entry plates using four of the previously removed screws on each side of the housing (Figure 2).

3.1.2 Removing Fiber Routing Shelf

Lift up on the plunger fasteners to disconnect the shelf from the housing and remove the shelf (Figure 4).

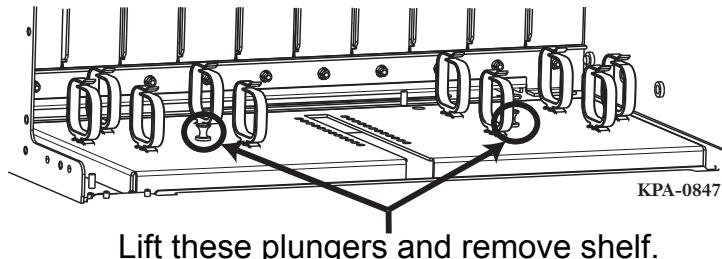


Figure 4

3.1.3 Positioning the Jumper Management Panel

Installation of the ITM can be made easier by moving the top jumper management panel to the “up” position. Remove the bracket from under the panel, raise the panel, and reinstall the bracket as shown in Figure 5.

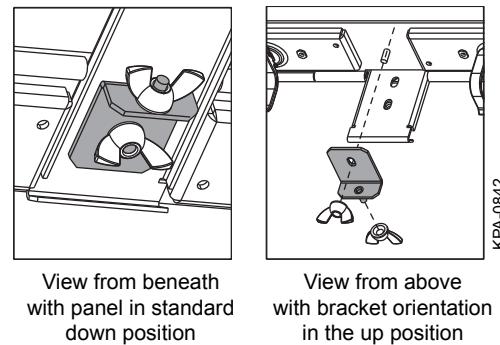


Figure 5

3.2 Install ITM

- Step 1:** From the front, remove a blank panel by pressing together the tabs at the end of the panel and pulling the panel away from the housing.
- Step 2:** ITMs with more than 40 feet of cable will have the excess cable shipped on an external reel. Insert the reel, if applicable, into the housing through the opening where the blank panel was removed. Then slide the module into the opening (Figure 6).
- Step 3:** Press the module’s plungers to secure the ITM in the housing.
- Step 4:** From the rear of the housing, if applicable, remove strap holding the reel to the module, uncoil the fiber from the reel, and properly dispose of the reel.
- Step 5:** If there is no external reel and all of the cable is stored inside the ITM, it is necessary to press down on the latch and pull on the handle to open the tray and access the cable for deployment (Figure 7).
- Step 6:** To deploy the cable, remove the MTP® connector from its protective holder and uncoil the appropriate length of cable periodically moving the strain-relief boot towards the ITM.

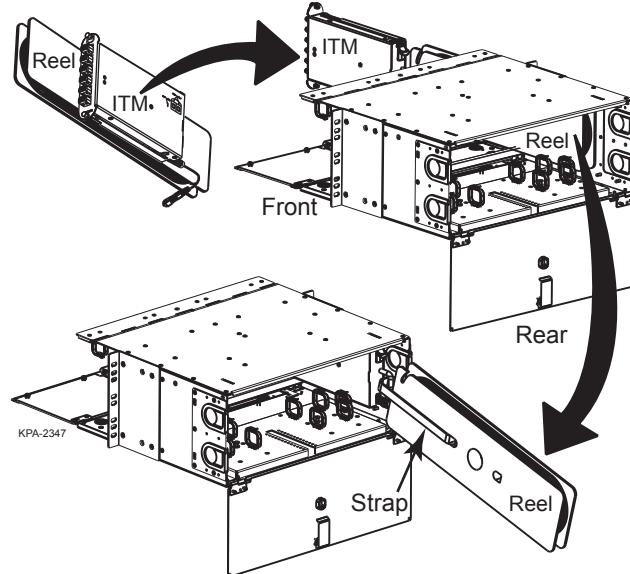


Figure 6

IMPORTANT: Use the cable foot-marks on the cable to determine the required length of cable to be uncoiled.

- Step 7:** Place the trunk cable into the cable pathway according to local practices. Return any cable slack to the coil in the ITM.
- Step 8:** Slide the boot back to the ITM. Align the groove in the boot with the cutout in the rear of the ITM. Push the boot into the cutout until it seats completely (Figure 7).
- Step 9:** To strain-relieve the cable, affix the white cable isolator around the cable and affix it to the base of the strain-relief bracket using a cable tie to secure it in position.

Step 10: Prior to closing the sliding tray, ensure all excess cable slack is stored under the tabs of the internal routing guide.

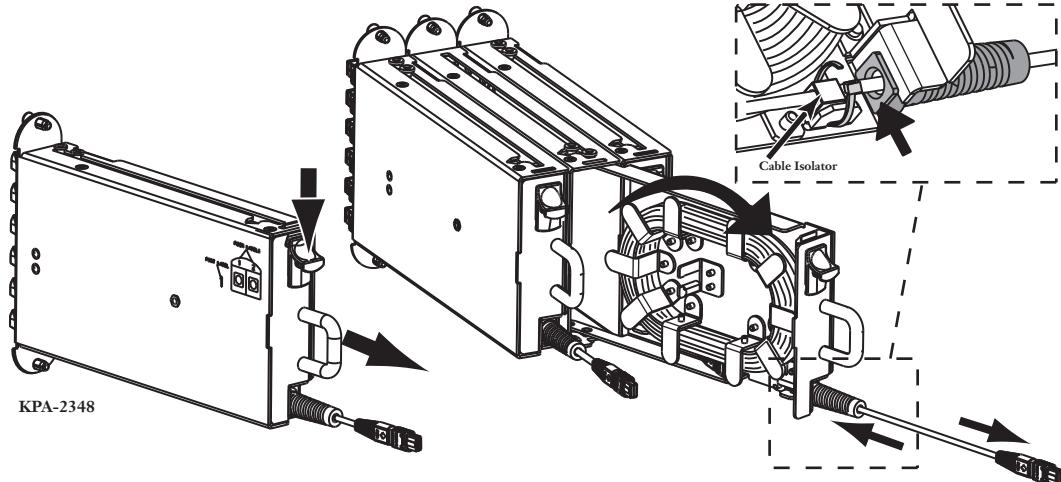


Figure 7

3.3 Route and Secure Trunk

Deploy trunk cable using best practices with care taken to protect the preterminated MTP connector and to properly strain-relieve the cable in the housing using installation procedures provided with that product.

4. Maintenance

The most likely cause of a problem with a module is connector end-face contamination. Keep clean dust caps on the module's MTP connector adapters and the trunk's connectors when they are unmated. Clean the connector before each mating.

To clean LC duplex connectors and the LC shuttered adapters on the front of the module, use a CLEANER-PORT-LC tool as described in its instructions.

To clean the MTP connectors and adapters, use an MTP connector cleaning tool (p/n 2104466-01) as described in its instructions (Figure 8).

Periodically check the fiber optic cable to ensure bends do not exceed the minimum bend radius. Check the trunk for unnecessary strain. Check trunk cable for crimping or crushing.

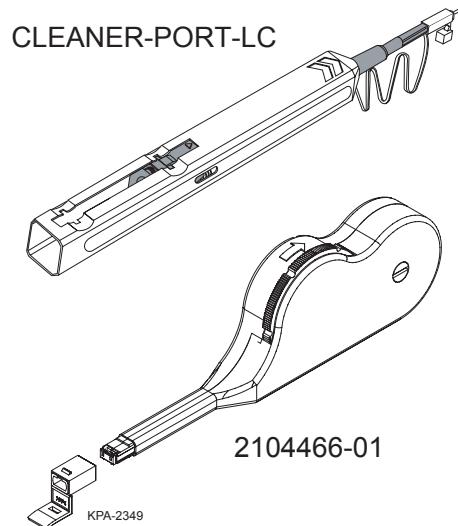


Figure 8

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