

1. General

This document describes the recommended procedure for installing Integrated Trunk Modules (ITMs) shown in Figure 1 into 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.

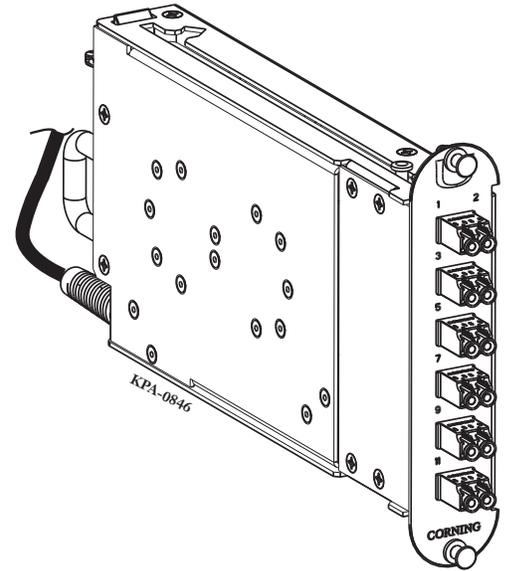


Figure 1

2. Tools and Materials Required

- Cleaning kit (p/n TKT-PNP), 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 screwdriver
- Channel-lock pliers
- Adjustable wrench

3. Installation

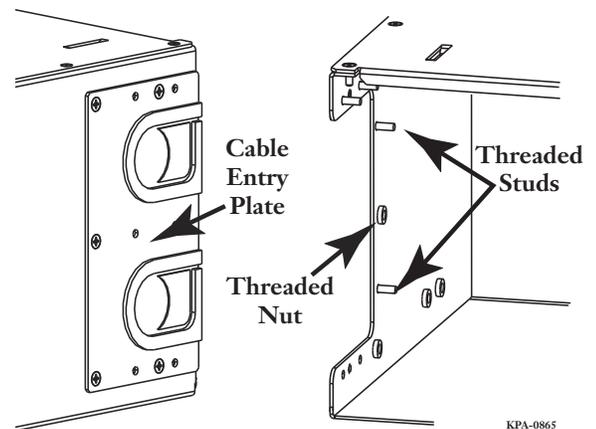
3.1 Prepare the Housing (Initial Version)

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 screwdriver and set all parts aside (Figure 2).



KPA-0865

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).

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.

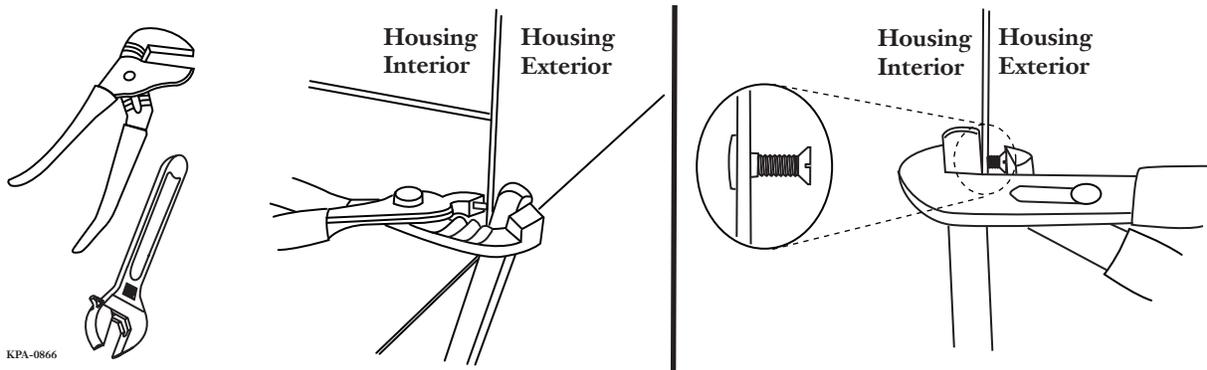
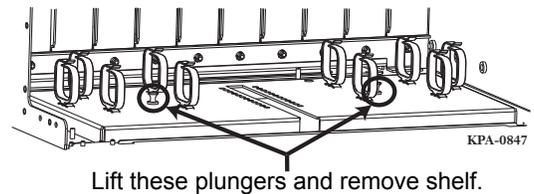


Figure 3

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).

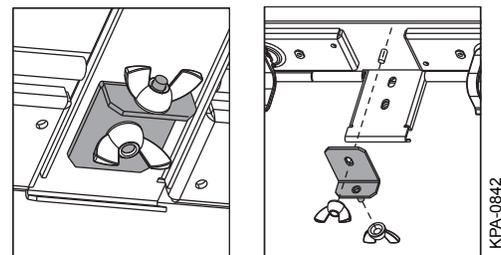


Lift these plungers and remove shelf.

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.



View from beneath with panel in standard down position

View from above with bracket orientation in the up position

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.

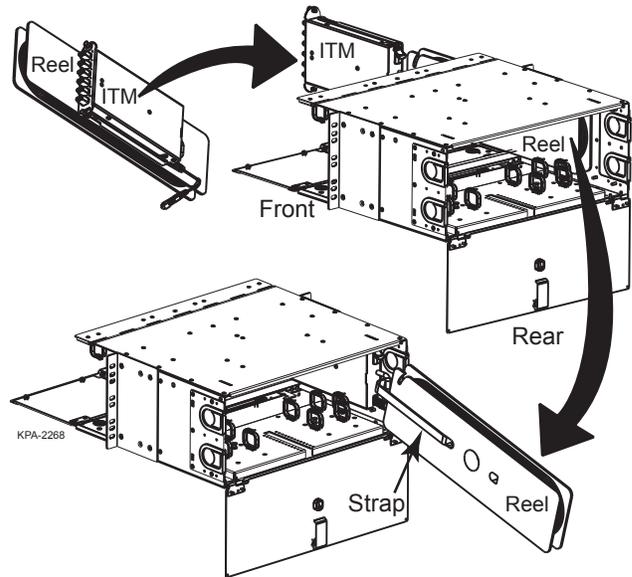


Figure 6

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).

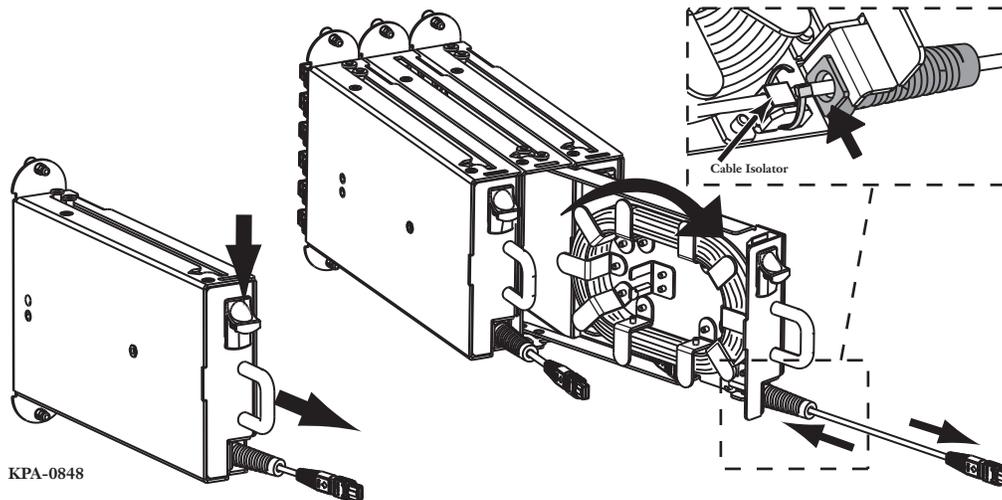


Figure 7

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.

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.

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

Cleanliness is the key to a high performance fiber optic network. Contaminated connectors are the single biggest cause of poor attenuation performance. For this reason, proper handling and cleaning is especially important during installation. Always keep dust caps on the module's connector adapters and the trunk's connectors. Clean each connector and adapter before mating as described in the instructions provided with the TKT-PNP cleaning kit (purchased separately).

Periodically check the fiber optic cable to make sure bends do not exceed the minimum bend radius. Check the trunk cable for unnecessary strain. Check the cable entries and exits for crimping or crushing and for damage to grommets.

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