

1. INTRODUCTION

This instruction sheet covers installation of HSR PC Board Connector Kits 2000667-[] (right-angle daughter card connector) and 2000668-[] (vertical mother board “backplane” connector) onto the pc board. The connectors in these kits are configured to mate with each other.

2. DESCRIPTION

Each connector kit consists of an amount and mixture of Z-PACK* hard metric (HM)-Zd connectors, SMPM (coaxial) connector modules, and universal power module (UPM) connectors that specifically meet customer requirements. Each kit also contains a shell, two mounting screws, and two keying guide sockets and internal retaining rings (daughter card connector kit) or two keying guide pins (mother board connector kit).



NOTE The coaxial connector modules accept SMPM straight cable jacks (daughter card connector) or SMPM straight cable plugs (mother board connector). The jacks and plugs are available separately.

Electrostatic discharge (ESD) screens for the daughter card connector kit are available separately.

3. INSTALLATION

Ensure that the pc board is prepared according to the customized customer drawing, then proceed as follows:

3.1. Daughter Card Connector Kit (Refer to Figure 1)

1. Seat the HM-Zd connector and UPM connector onto the pc board. Refer to the following documents:
408-8501 for seating HM-Zd connectors and 114-13059 for application requirements
408-4280 for seating UPM connectors and 114-1103 for application requirements
2. If applicable, insert the SMPM straight cable jacks into the coaxial connector module according to the instructions included with the jacks.
3. Insert a keying guide socket (oriented in desired keying position) into the *front* of each keying hole of the shell, then insert an internal retaining ring into the *front* of each keying hole so that it holds the keying guide socket in place.

HSR Connector Kits 2000667-[] — Right-Angle Daughter Card Connector

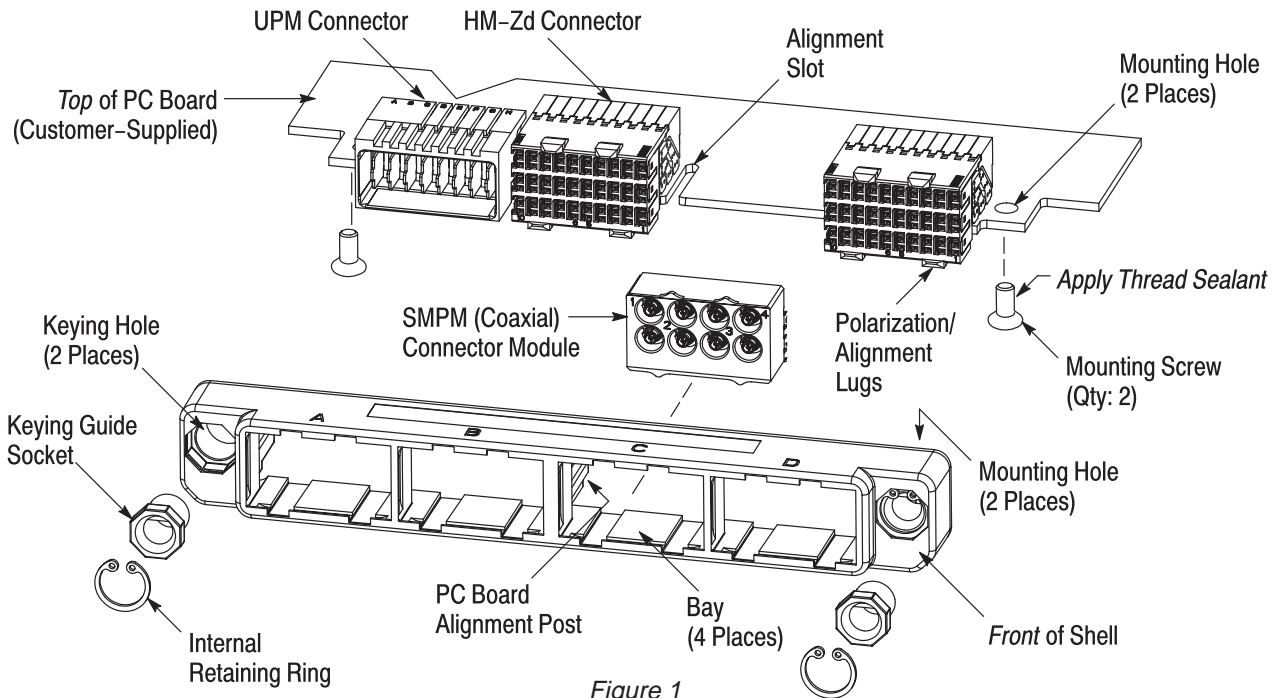


Figure 1

NOTE



Make sure that the flat surface (inside the keying guide) will match the flat surface of the keying guide pin (installed onto mother board).

4. Slide the coaxial connector module into the applicable bay of the shell (the connector will be held in place by the pc board).

5. If applicable, install the ESD screens onto bays of the shell for the HM-Zd connectors. From the back of the shell, align the cutouts of the screen with the top of the shell, and slide the screen into the bay until the locking tabs “snap” into the grooves. See Figure 2.

6. Orient the shell so that the pc board alignment post of the shell aligns with the alignment slot in the pc board and the alignment slots of each bay align with the polarization/alignment lugs of each HM-Zd connector; then slide the shell (with the coaxial connector module, if applicable) over the connectors and onto the pc board.

7. Apply a thread sealant to the threads of the mounting screws. Make sure that the mounting holes of the shell align with the mounting holes in the pc board and, from the *bottom* of the pc board, thread the mounting screws through the mounting holes and into the mounting holes of shell. Tighten the screws.

Installing ESD Screens onto Daughter Card Shell

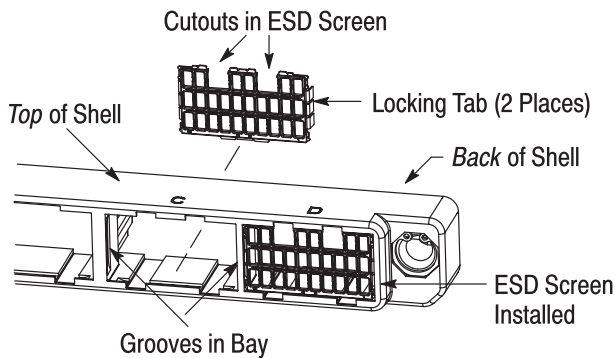


Figure 2

3.2. Mother Board Connector Kit (Refer to Figure 3)

1. If applicable, install the SMPM straight cable plugs onto the pc board according to the instructions included with the plugs.

2. Seat the HM-Zd connector (**see important note for orientation**) and UPM connector onto the pc board. Refer to the following documents:

408-8500 for seating HM-Zd connectors and 114-13059 for application requirements

408-4169 for seating UPM connectors and 114-1103 for application requirements

HSR Connector Kits 2000668-[] — Vertical Mother Board (Backplane) Connector

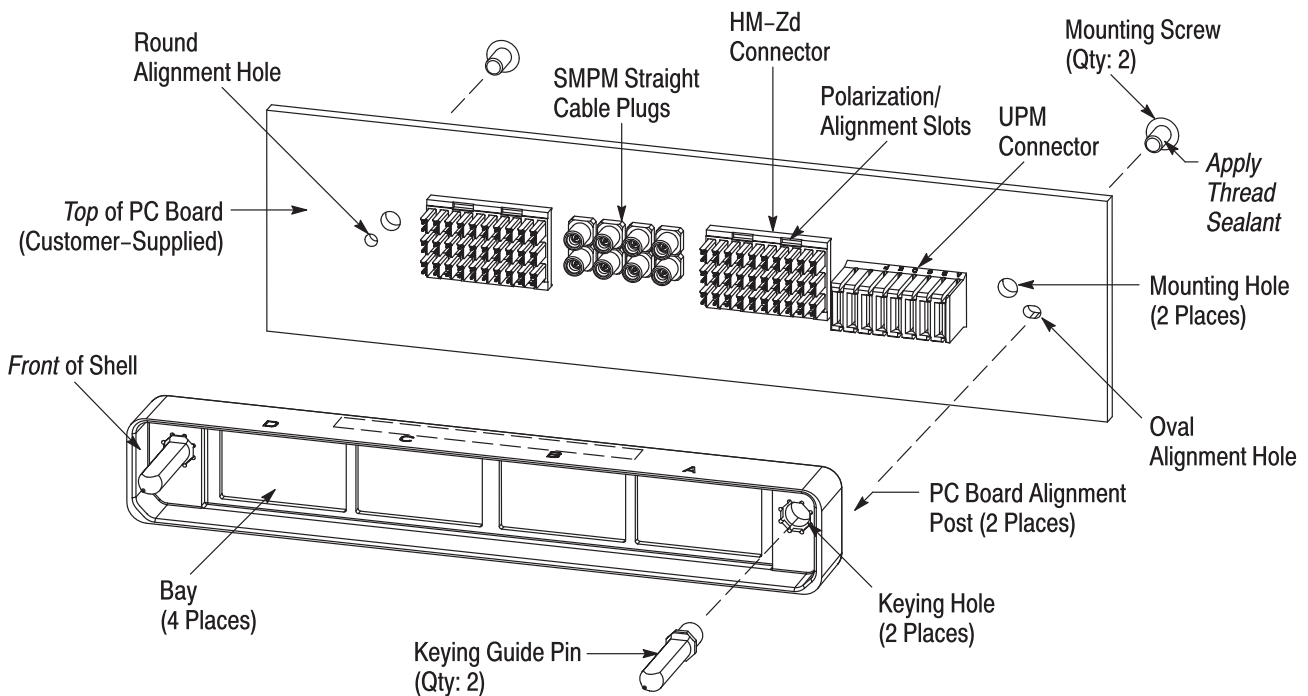


Figure 3



Important: *HM-Zd connectors must be oriented properly on the pc board; otherwise, the shell will not fit onto the connectors.*

Refer to Figure 3. Orient the HM-Zd connector so that:

- the signal contacts face the round alignment hole and the ground shields face the oval alignment hole.
- the closer-spaced polarization/alignment slots face the top of the pc board (end closest to mounting holes). When installing the shell onto the pc board, the embossed letters (of the shell) must align with these slots.

3. Orient the shell so that the two pc board alignment posts of the shell align with the alignment holes in the pc board and the bays (of the shell) align with the connectors; then slide the shell over the connectors and onto the pc board.
4. Insert each keying guide pin (oriented in desired keying position) into the *front* of the keying holes of the shell.



Make sure that the flat surface of the keying guide pin will match the flat surface (inside) of the keying guide (installed onto daughter card).

5. Apply a thread sealant to the threads of the mounting screws. Make sure that the keying holes of the shell align with the mounting holes in the pc board and, from the *bottom* of the pc board, thread the mounting screws through the mounting holes and into the keying holes of the shell. Tighten the screws.

3.3. Inspection

Figure 4 shows the daughter card connector kit (without ESD screens) installed onto the daughter card and the mother board connector kit installed onto the mother board.

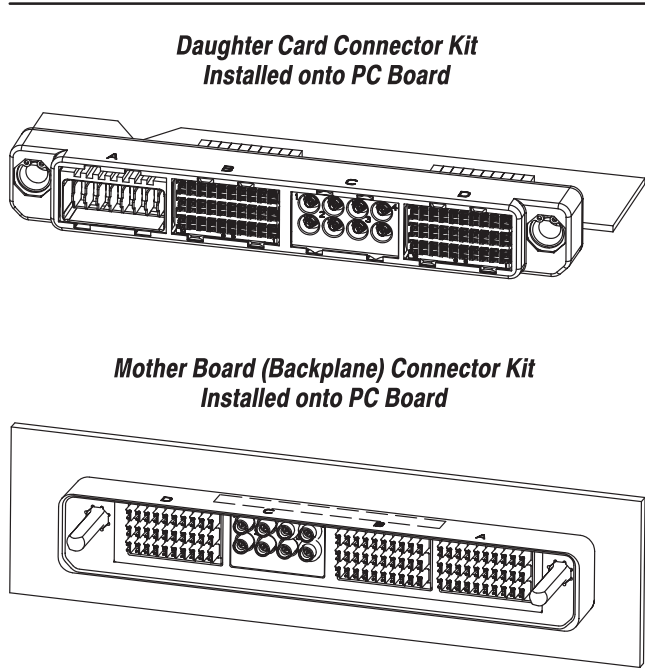


Figure 4

4. REPLACEMENT AND REPAIR

Kit components are not repairable. DO NOT use any damaged components. DO NOT re-use jacks or plugs by removing the wire.

5. REVISION SUMMARY

- Initial release of instruction sheet