

STANDARD PROCEDURES AND PRACTICES

NUMBER: **SPP-023, ISSUE B**
SUBJECT: **Module Insertion Procedure for DIMM and miniDIMM Connectors**
EFFECTIVE DATE: **February 2013**
ITEM NUMBER: **11.2-862S**

Objective:

The objective of this document is to instruct the user how to insert the module properly into **a vertical** socket as well as remove the module from the vertical socket. Proper module insertion and removal is required to prevent damage to the socket and cause non-functional memory modules.

Preparation:

1. Make sure the system is powered down.
2. Preferred method: Wear properly grounded ESD (electrostatic discharge) straps and shoes when inserting or removing memory modules.
Alternative Method: If ESD straps, etc, are not available, be sure to establish a physical ground for yourself to the chassis ground before grasping the DIMM.

Insertion Procedure:

1. Always hold the module at the edges to avoid contact with the components on the module. See Figure 1.



Figure 1 — Example of how to hold module at edges

2. Never hold two or more modules together or stack them.
3. Never touch the gold contact fingers on the module.
4. Do not flex or bend the module before or during insertion and removal from the socket or damage to the DIMM or socket may occur.
5. Ensure that both latch ejectors are in the fully open position. See Figure 2.

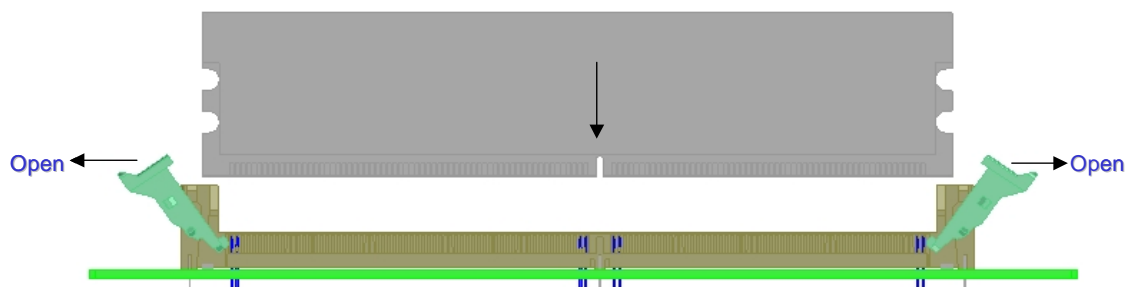


Figure 2 — Example of latch ejectors in fully open position

Insertion Procedure (cont'd):

6. Place the module into the socket using the latch towers as a guide until the module touches the top of the socket. Align the module card vertically at the end guides. Once it is guided, slide the module downwards until the key slot in the module engages the key in the DIMM socket. See Figure 3.

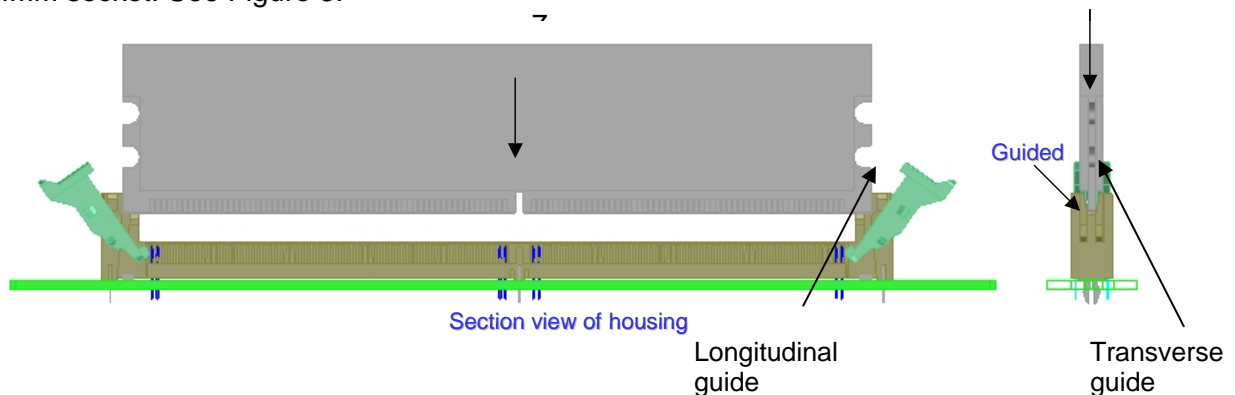


Figure 3 — Example of module alignment

8. Make sure that the module is not tilted and that the key slot is aligned properly with the key of the housing. Never insert a module at an angle.
9. Press the module vertically down into the socket using pressure at each end of the module keeping the leading edge of the DIMM parallel to the connector until it fully seats to the bottom of the socket. When the module engages the contacts in the socket, resistance will be felt requiring more force to push the module down. During this stage please follow the below instructions carefully or damage may occur. See Figure 4.
 - a. Never insert the memory module at an angle.
 - b. Never rock the module during insertion.
 - c. Never insert the module by pushing on one end of the module only or by seating one end of the module then the other.
 - d. Never insert the module by seating one end first then seating the other. (This is called zippering.)

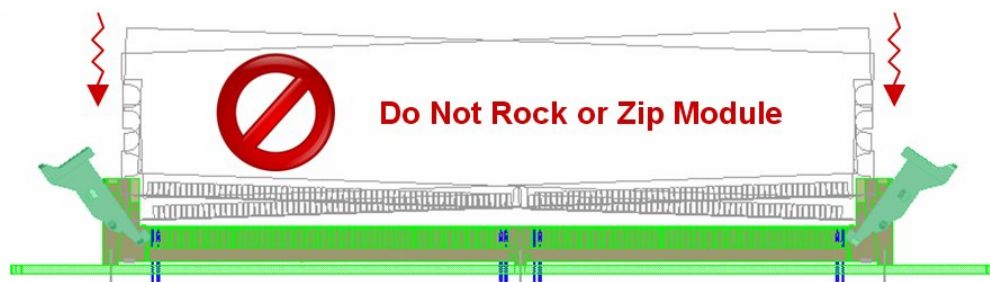


Figure 4 — View of module being pressed vertically down into the socket

Insertion Procedure (cont'd):

10. Proper module insertion will automatically close the latch ejectors and lock the module into the socket. Verify that the latch ejectors are fully closed and have engaged the notches in the module. See Figure 5.

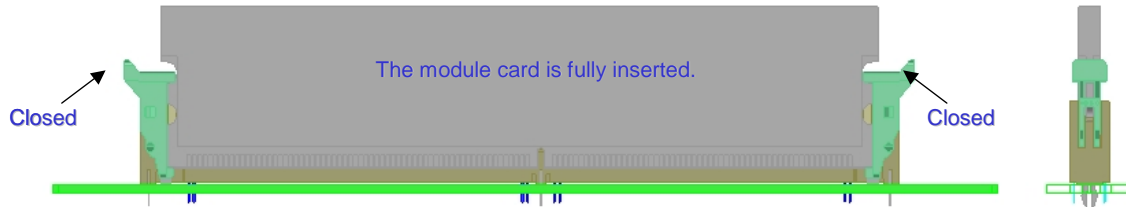


Figure 5 — Example of proper module insertion

11. Once the module has been properly inserted, the system may be powered up.

Removal Procedure:

1. Using both hands, firmly grasp BOTH latches.
2. Rotate both latches outward simultaneously. Do not attempt to eject the module using only one latch as this could result in damage to the module, connector or both.
3. With both latches in the open position, the module is free to be removed.

Change Record

If the changes involve any words added or deleted (excluding deletion of accidentally repeated words) the change is included. Punctuation changes may or may not be included.

Initial Issue: A	Date: July 2008	JC11 Item Number: JC11.2- 781S
------------------	-----------------	--------------------------------

CHANGE RECORD HISTORY

Issue: B	Date: January 2013	Item Number: JC11.2-862S
LOCATION	CHANGED FROM:	CHANGED TO:
Objective	-	Add verbiage regarding module removal
Procedure	"Procedure"	Add "Insertion": Insertion Procedure
New	Add Section	Add "Removal Procedure" Section
Graphics	Moved from previous locations	Moved to follow the appropriate step in the procedure
Graphics	Figure numbers missing	Added Figure Numbers

ISSUE:	DATE:	ITEM NUMBER:
LOCATION	CHANGED FROM:	CHANGED TO:

[illegible]