E8042A Analysis Probe for the Intel® Xeon™ Processor in the 603-Pin Package

Interposer Installation Quick Start

The interposer is a precision instrument. To avoid damaging the interposer, carefully follow the instructions in this Quick Start and in the “Probing the Target System” chapter of the User’s Guide.

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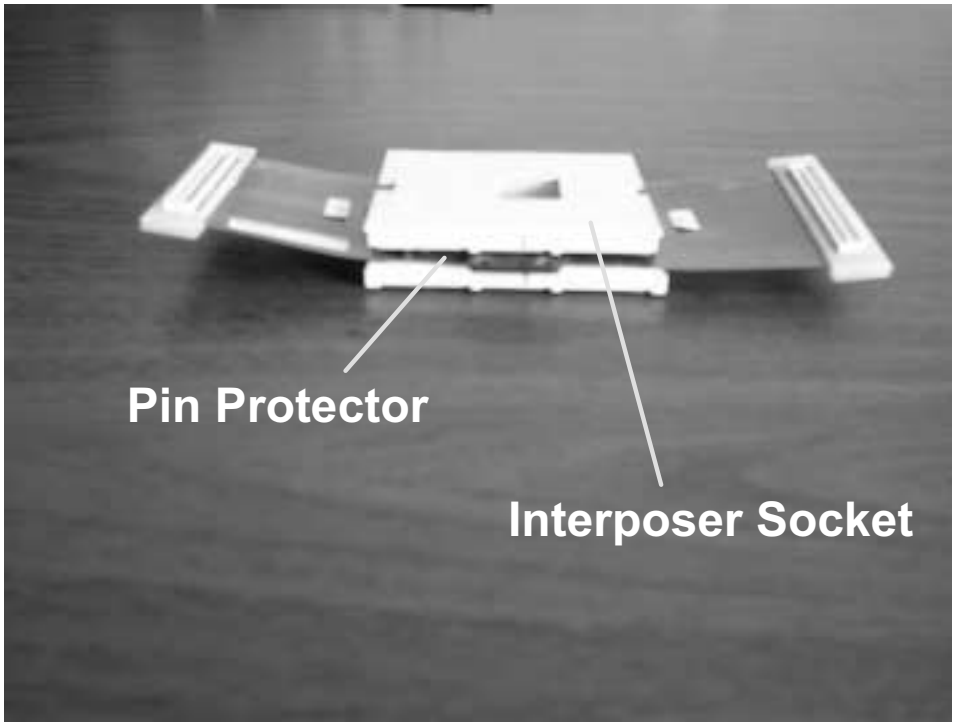
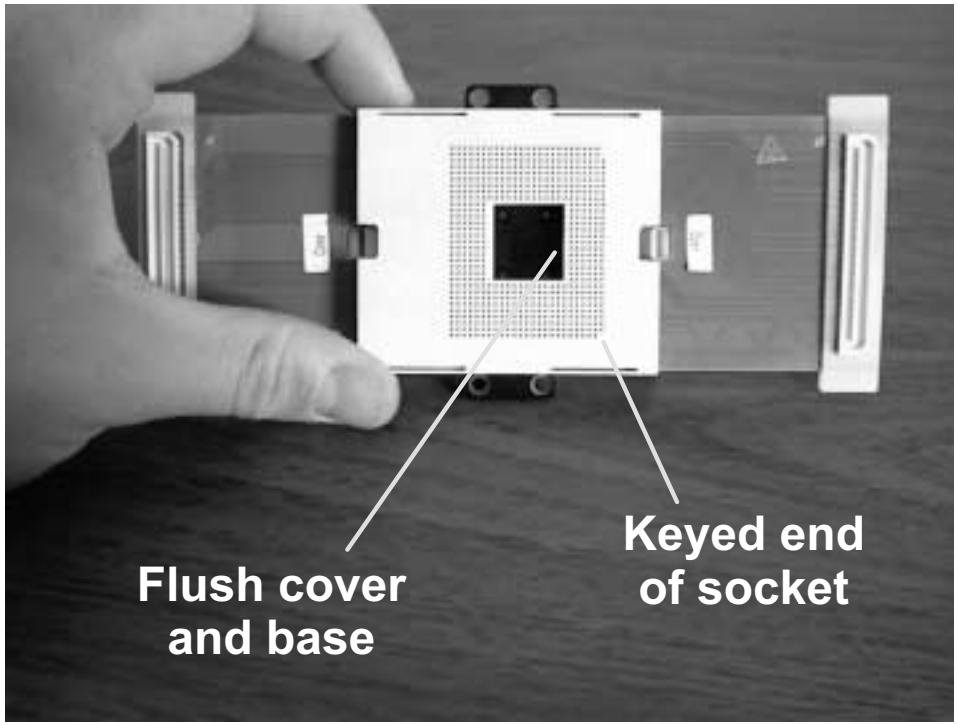




Check to see if the interposer socket is open.

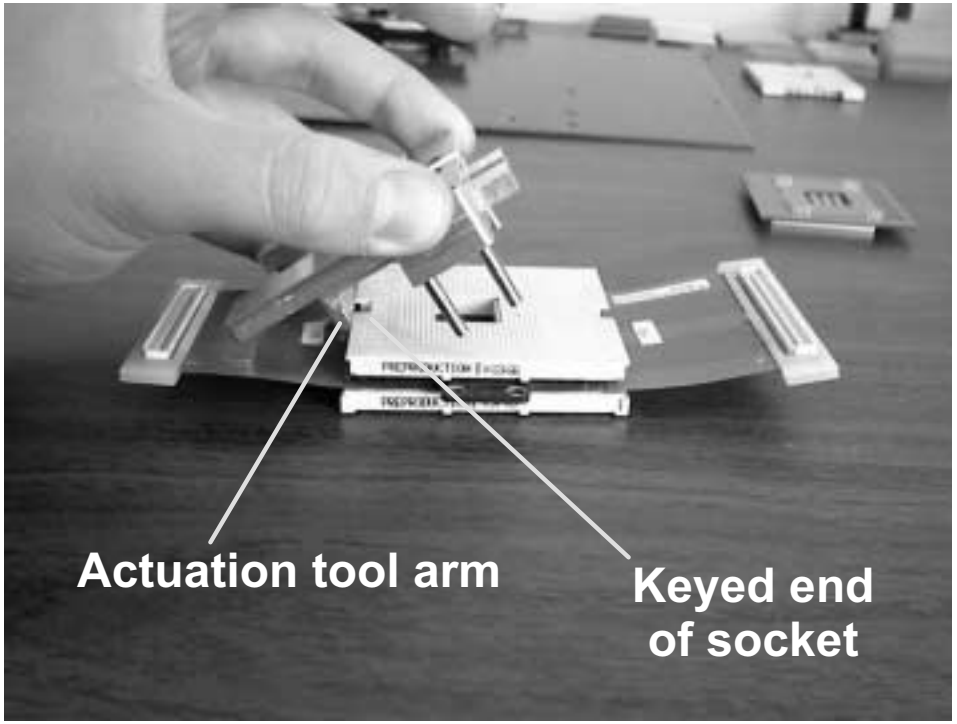
The square openings in the middle of the socket and base should be flush at the keyed end when the socket is in the open position.

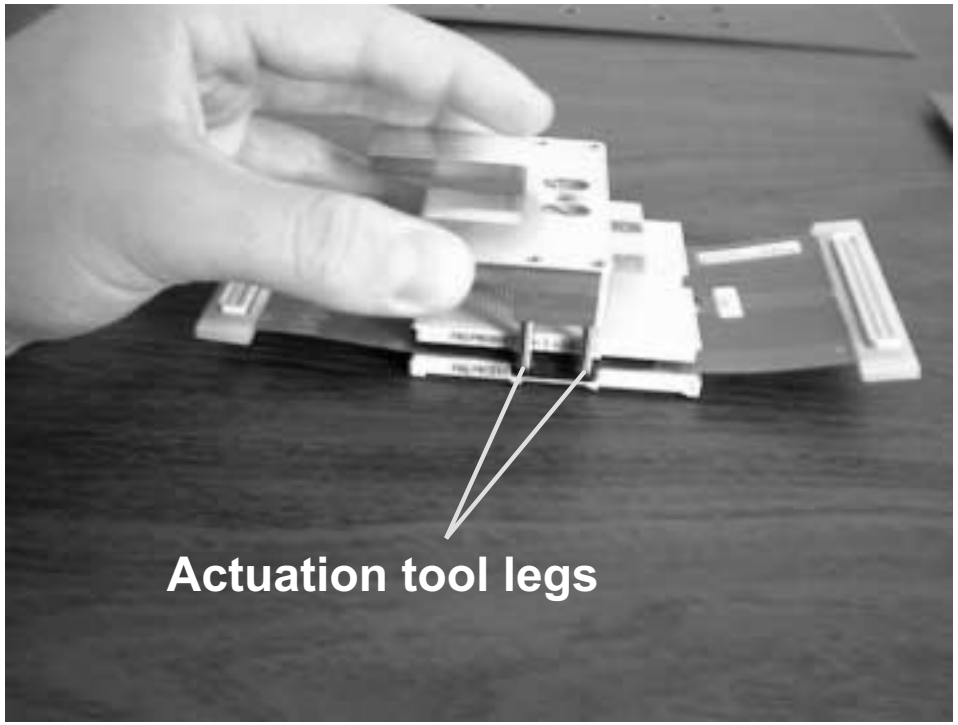
When the socket is open, no clips should be visible when looking down into the socket.

If clips are still visible when the socket is in the open position, the socket clips may be damaged.

DO NOT attempt to insert the processor into a damaged socket. This will damage the pins.

If the socket is open, go to page 4. If the socket is closed, proceed to page 2.





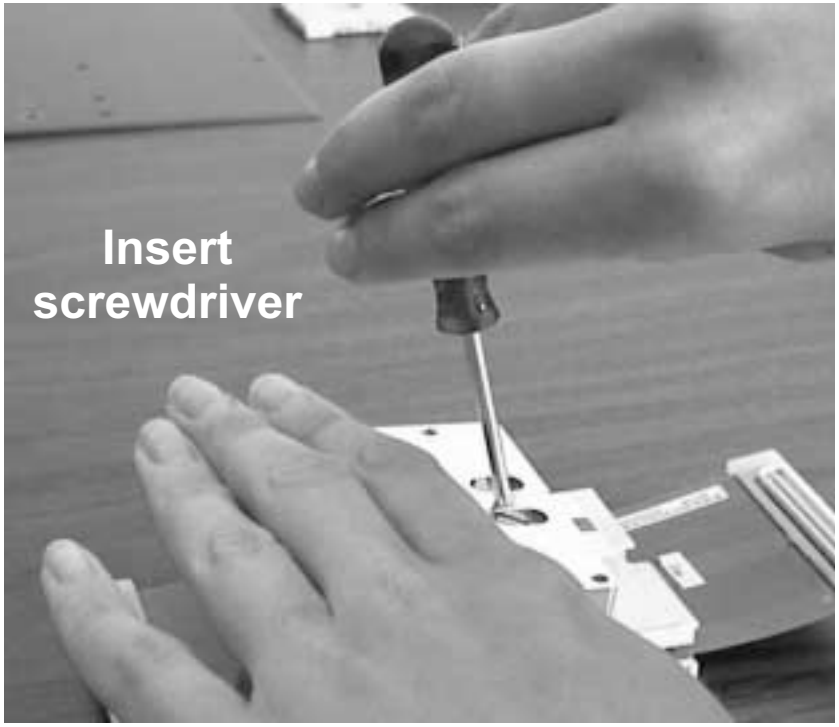
Open the interposer socket.

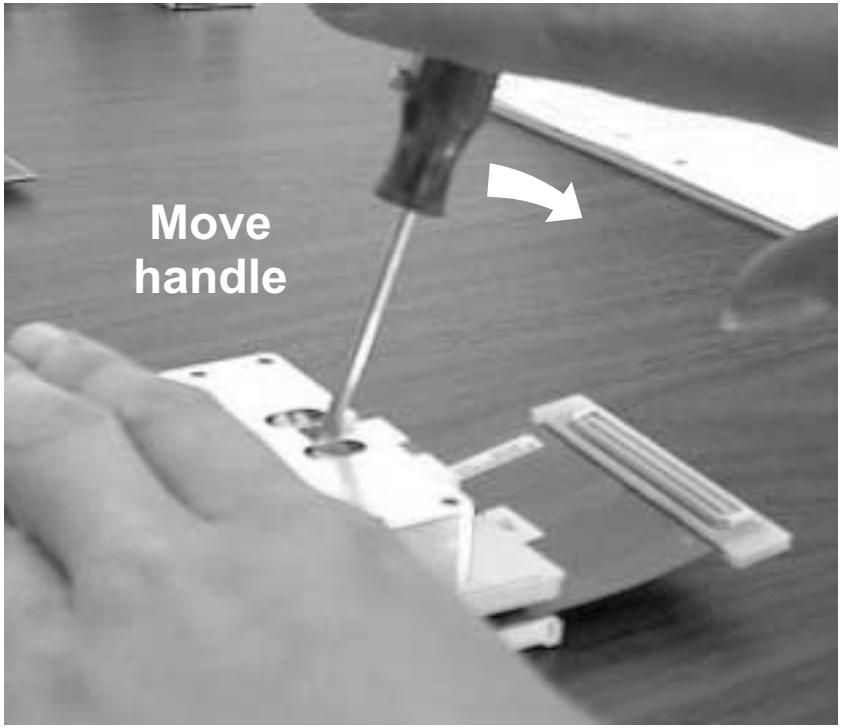
Line up the groove slot on the actuation tool arm with the interposer socket cover.

Make sure the tool arm is being attached to the keyed end of the interposer socket marked ***open***.

Drop the legs of the actuation tool into the matching holes on the interposer.

Do not attempt to insert the legs until the slot on the arm has been attached to the cover.



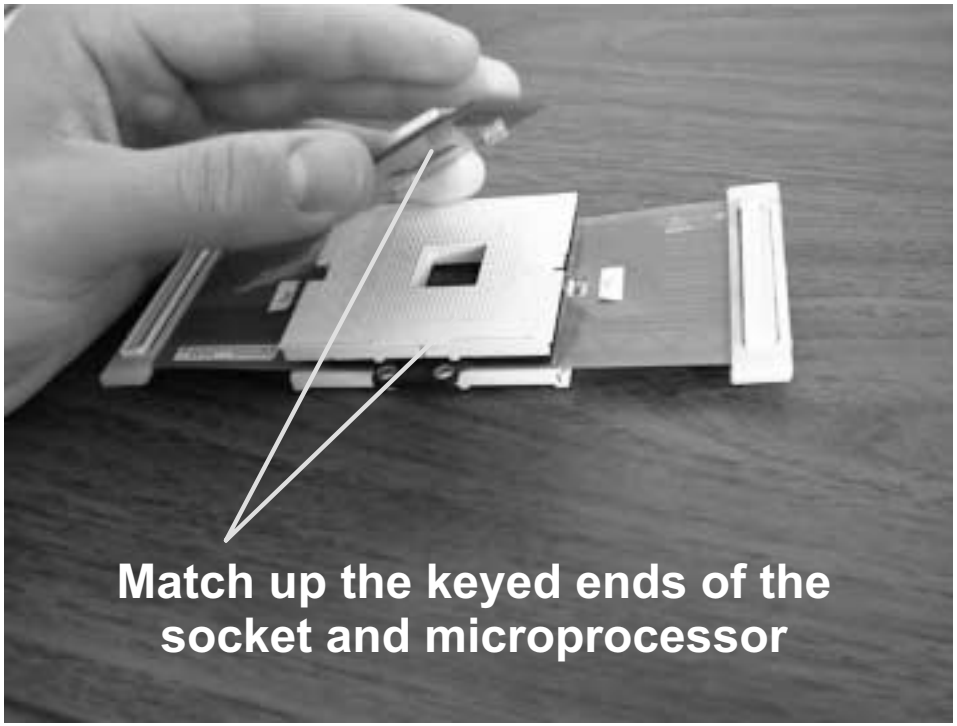


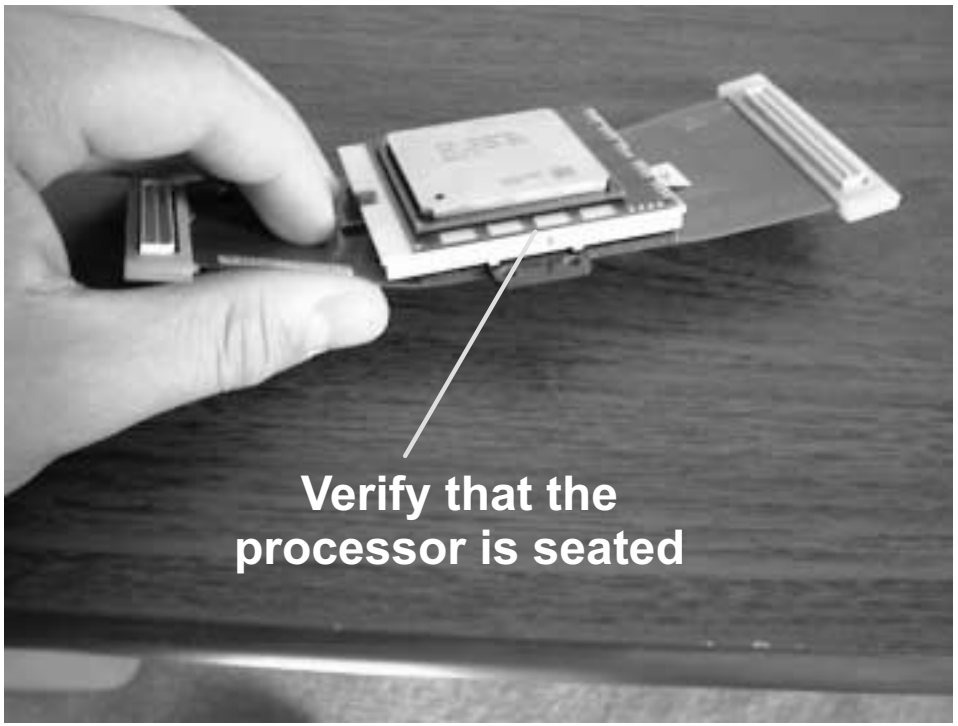
Open the interposer socket (Cont'd)

Insert a 1/8 inch wide flathead screwdriver into the actuation tool in the slot between the two shoulder screws.

Move the screw driver handle in the direction shown in the above pictures. As the socket is actuated, the cover will move about 1mm into the open position. Actuation should not require excessive force. If the cover does not move immediately, remove the actuation tool and check to see if it was attached to the correct end if the socket.

When the cover has actuated, remove the actuation tool by lifting it up and out of the interposer holes. Verify that the square opening is aligned flush with the opening in the socket base at the keyed end of the socket. If the cover is over-or under-actuated, use your hands to move the cover into the correct open position.





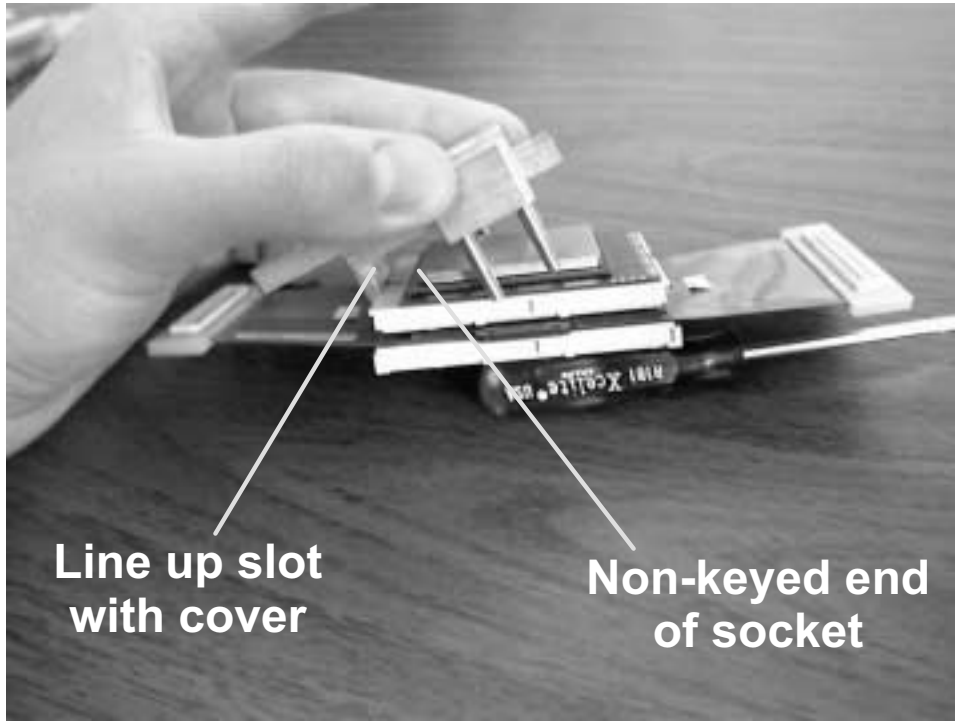
Insert the processor into the interposer.

Insert the processor into the interposer socket by lining up the keyed end of the socket with the keyed end of the processor.

The processor should drop into the socket with little or no force required. If there is resistance, check again to insure the socket is open or that the clips in the socket are not damaged.

Do not force the processor into the socket. This could result in damaged pins.

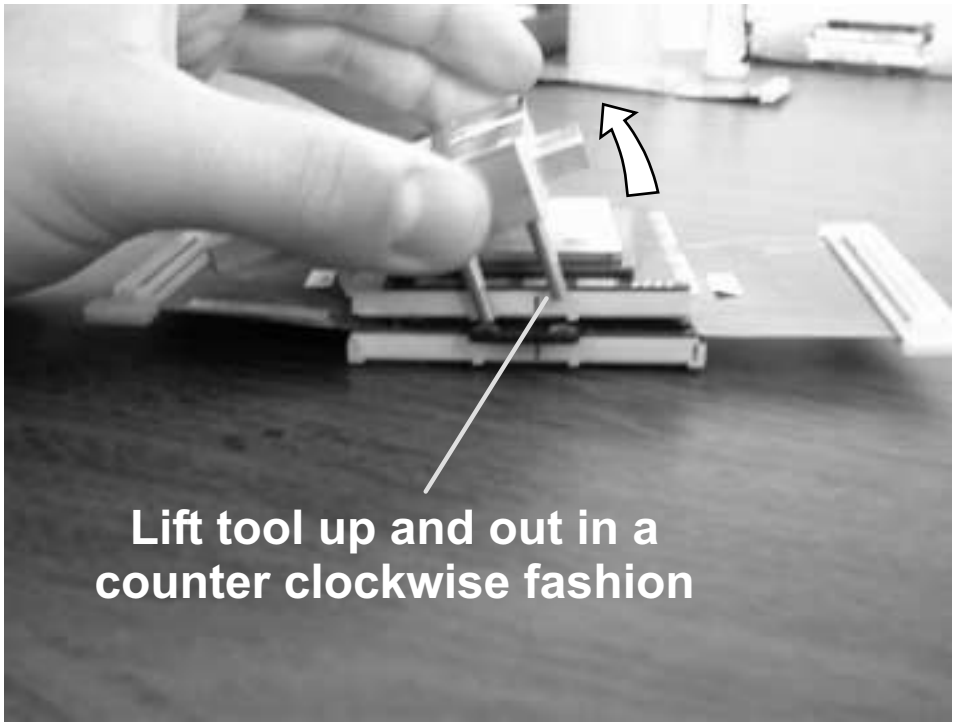
If the processor is correctly inserted into the interposer socket, it will be seated flat against the socket.



Close the interposer socket

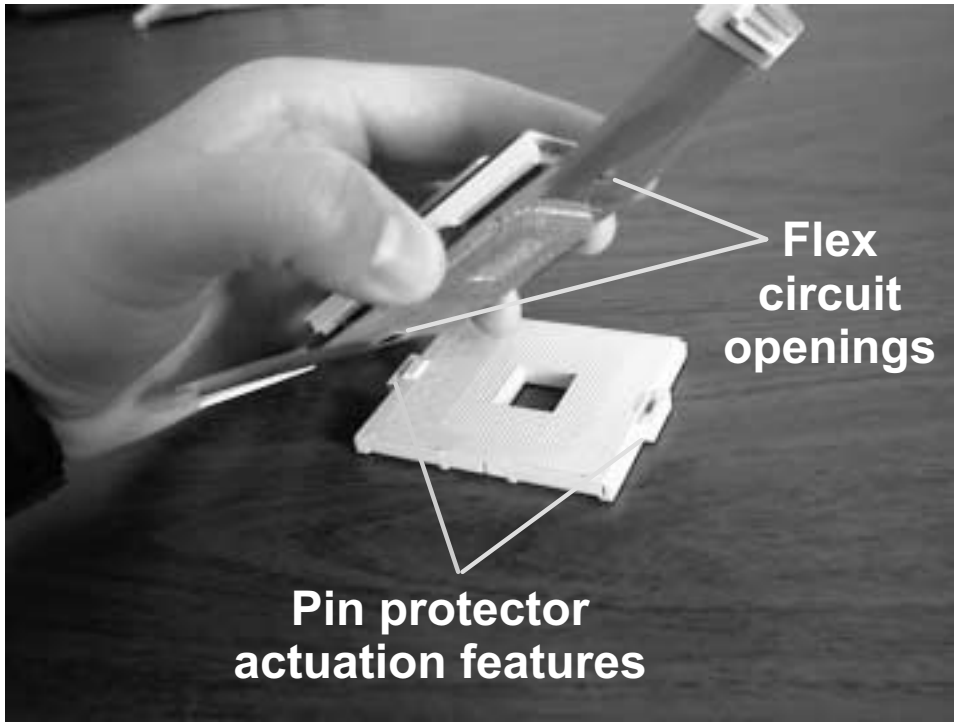
Follow the same instructions for opening the socket, (pages 2-3) except this time attach the tool to the non keyed end instead of the keyed end. The end is marked by the **closed** label on the flex. As the socket is actuated, you will feel the socket move and the pins lock into place. Actuation should not require excessive force.

If the cover does not move, remove the actuation tool and check to see that the processor is seated properly and that the tool is attached to the correct end of the socket. Verify that the processor is locked into the interposer by removing the actuation tool and attempting to remove the processor with your hands. If the processor is correctly locked in, removing it with your hands will not be possible.



Remove the actuation tool

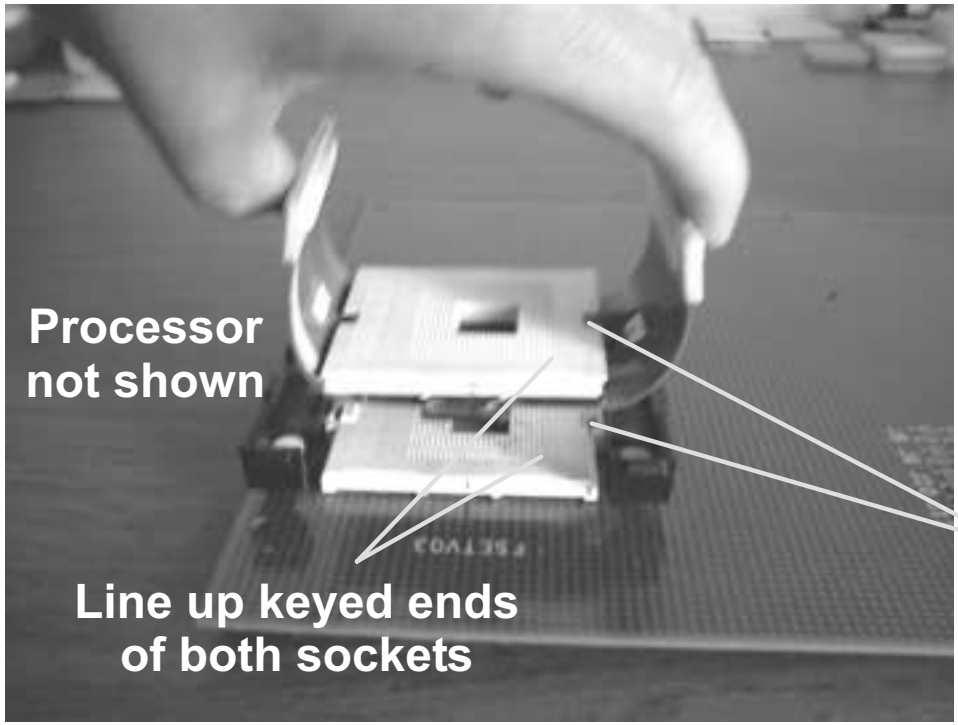
Remove the actuation tool by doing the reverse of the installation instructions. Remove the legs then remove the slot from the cover. Removal is easiest if the tool is lifted up and out of the interposer in a counter clockwise fashion.



Remove the pin protector

The interposer should have been shipped with the pin protector in the **open** and unlocked position.

If the interposer is not easily removed from the pin protector, unlock it by inserting a 1/8 inch wide screw driver into the pin protector socket actuator at the non-keyed end marked **closed**. The actuator can be seen through the openings in the flex circuit. Move the handle of the screw driver toward the processor. Be careful not to damage the flex circuit with the screw driver.

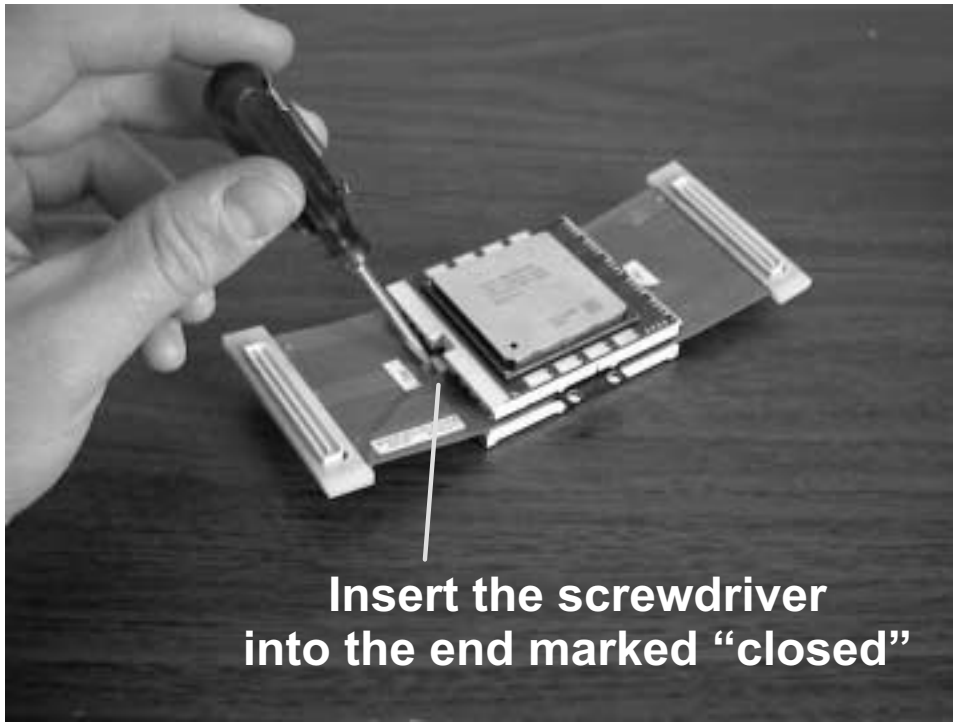


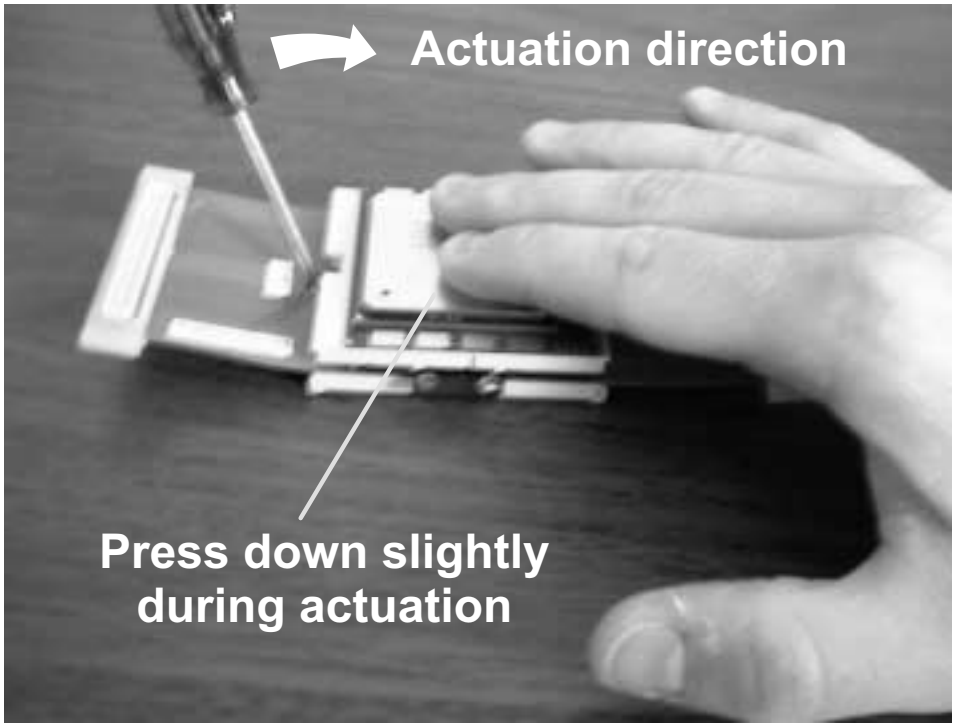
Insert the interposer into the mother board socket.

Check to see that the mother board socket is in the open position.

The easiest way to insert the interposer is to hold both wings of the interposer with one hand. Line up the opening in the flex circuit with the actuator on the mother board socket.

Make sure the keyed end of the interposer is lined up with the keyed end of the mother board socket.





Lock the interposer into the mother board socket.

Insert the 1/8” wide screwdriver into the mother board socket through the opening in the flex at the end marked “closed”.

Press down on the interposer slightly while actuating the mother board socket to make sure the interposer does not push itself out of the socket during actuation.

Move the screwdriver in the same fashion as before to actuate the mother board socket.

Once the mother board socket has been actuated, the interposer should be sitting flat against the mother board socket.

Summary - Removal Instructions

See User's Guide for more details.

1. Unlock the mother board socket.

2. Remove the interposer from the mother board socket.

3. Place the interposer into the pin protector.

4. Attach the actuation tool to the end marked "open" on the interposer.

5. Actuate the socket open.

6. Remove the processor.

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