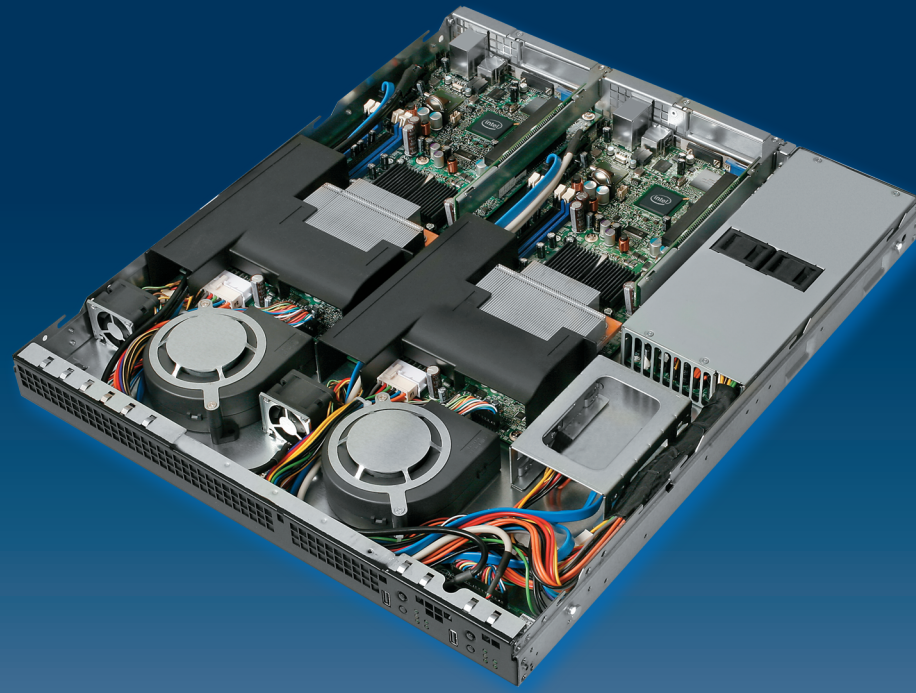


# Intel® Server System SR1520ML Quick Start User's Guide

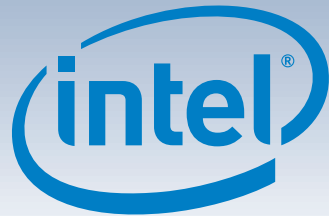


Thank you for buying an Intel® Server System. The following information will help you assemble your Intel® Server System SR1520ML and install components.

This guide and other supporting documents are located on the web at <http://support.intel.com/support/motherboards/server>.

If you are not familiar with ESD (Electrostatic Discharge) procedures used during system integration, please see the Intel® Server System SR1520ML User's Guide, available on the Resource CD or at <http://support.intel.com/support/motherboards/server/x38ml/manual.htm>.

Read all cautions and warnings first before starting your server system integration.



## Minimum Hardware Requirements

To avoid integration difficulties and possible damage to your system, make sure you have components from each category below.

- **Supported Intel Processor:**
  - See <http://support.intel.com/support/motherboards/server/x38ml>.
- **Heat Sink:**
  - 1U passive heat sink for each processor installed.
- **Memory:**
  - Minimum of one unbuffered 256 MB, 240-pin DDR2 667/800 MHz DIMM.
- **Hard Disk Drives:**
  - 2.5-inch SATA drives only
- **Power:**
  - Minimum of 600W.

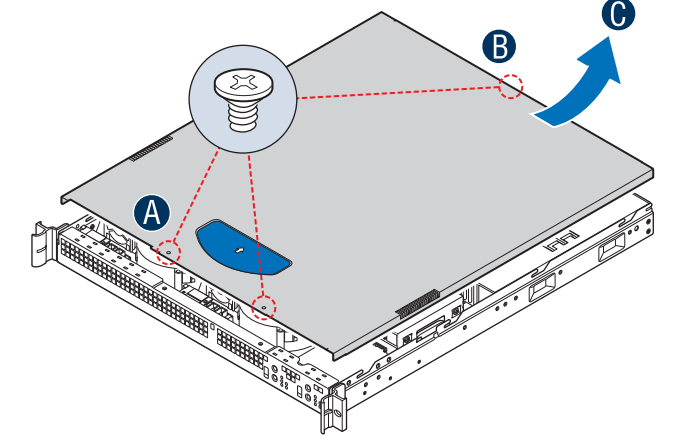
## 1 Preparing the Chassis

Observe normal ESD (Electrostatic Discharge) procedures.

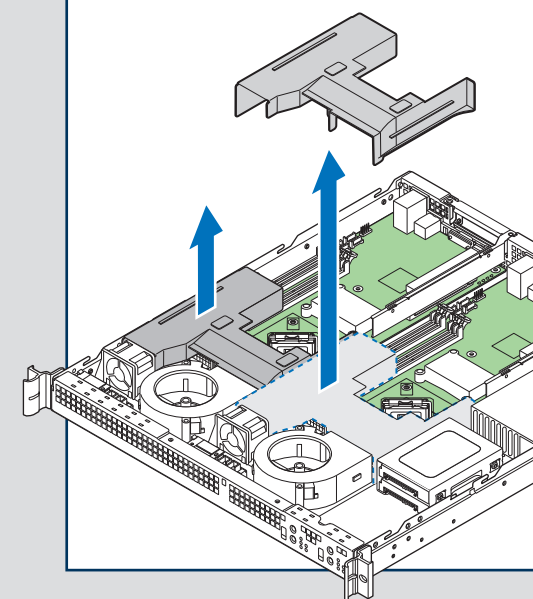
Place your Intel® Server Chassis on a flat anti-static surface to perform the following integration procedures. Always touch the chassis frame first, before reaching inside to make server board connections or to install components.

## 2 Remove Top Cover

- Remove the two screws at the front.
- Remove the single screw at the rear.
- Slide cover back and lift upward.



## 3 Remove Air Ducts

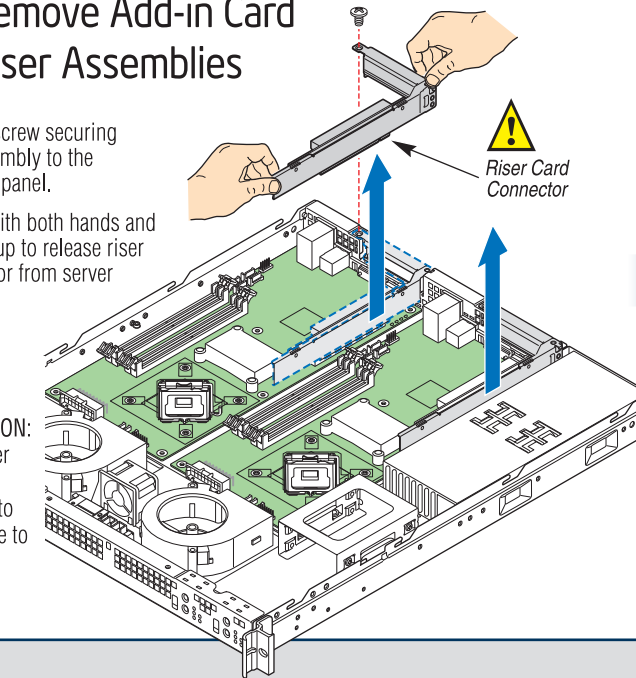


## 4 Remove Add-in Card Riser Assemblies

Remove the screw securing the riser assembly to the chassis back panel.

Grasp riser with both hands and pull straight up to release riser card connector from server board socket.

**CAUTION:** Place the riser assembly upside-down to avoid damage to the riser card connector.



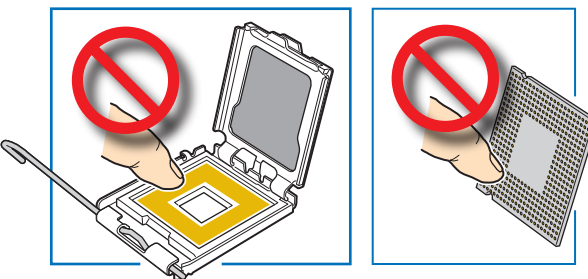
**IMPORTANT!**  
Before proceeding further, do the following:

Check your Intel® Server System for disconnected or loose cables and components that may have occurred during shipping.

## 5 Install the Processor(s)

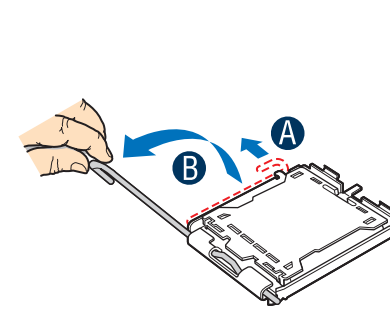
### Caution:

When unpacking a processor, hold by the edges only to avoid touching the contacts.



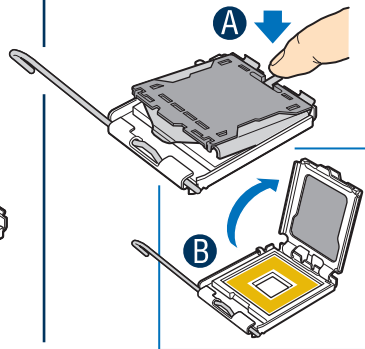
### A. Open the Socket Lever

- Push the lever handle down and away from the socket to release it.
- Pull the lever and open all the way.



### B. Open the Load Plate

- Push the rear tab with your finger tip to bring the front end of the load plate up slightly.
- Open the load plate as shown.



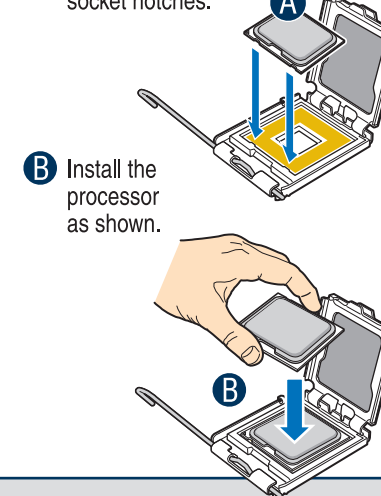
### C. Remove the Processor Protective Cover

- Take the processor out of the box and remove the protective shipping cover.



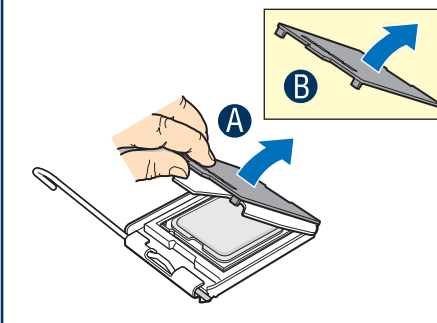
### D. Install the Processor

- Orient the processor with the socket so that the processor cutouts match the socket notches.
- Install the processor as shown.



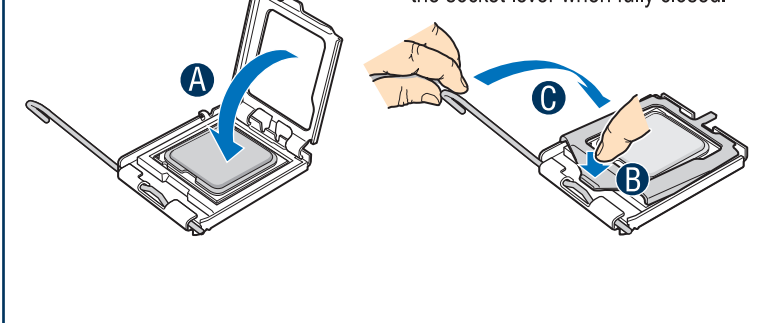
### E. Remove Socket Protective Cover

- Grasp the socket protective cover tab and pull away from the load plate as shown.
- Remove the socket protective cover and store for future use.



### F. Close Load Plate and Socket Lever

- Close the load plate all the way as shown.
- With your finger, push down on the load plate as shown.
- Close the socket lever and ensure that the load plate tab engages under the socket lever when fully closed.



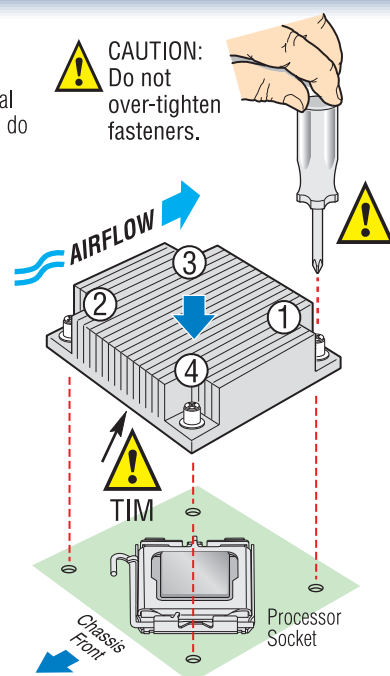
## 6 Install Heat Sink(s)

- Remove the protective film on the TIM if present.
- Align heat sink fins to the front and back of the chassis for correct airflow. Airflow goes from front-to-back of chassis.

The heat sink has four captive fasteners and should be tightened using the following procedure:

- Using a #2 Phillips® screwdriver, finger-tighten each fastener diagonally, according to the numbers shown.
- Securely re-tighten each fastener again in the same order as performed in Step C.

Note: Heat sink styles may vary.

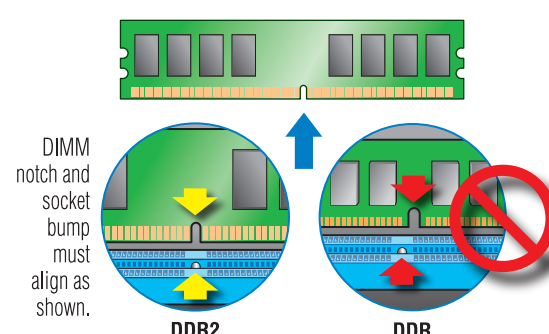


## 7 Install Memory DIMMs

### DDR2 DIMM Memory Identification:

This server board supports up to four DDR2-667 or DDR2-800 ECC or non-ECC unbuffered DIMMs. DDR DIMMs are not supported on this server board.

DDR2 memory varies in height. DO NOT MIX different DIMM heights and types.



### Memory Configurations and Population Order:

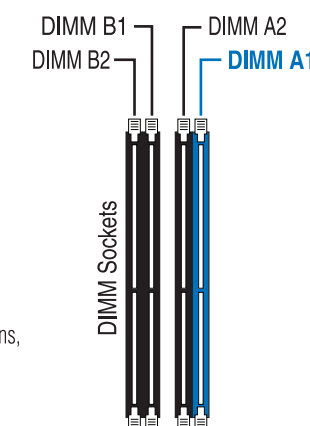
Memory Type: Minimum of one 256MB DDR2 DRAM in socket A1 on each server board.

For dual-channel asymmetric mode, DIMM sockets may be populated in any order.

Use only DDR2-667 and DDR2-800 DIMM modules. The speed used on all channels is that of the slowest DIMM on the server board.

Note: For additional memory configurations, see the User Guide on the CD that accompanied your Intel® Server Board X38ML, or go to: <http://support.intel.com/support/motherboards/server/x38ml>

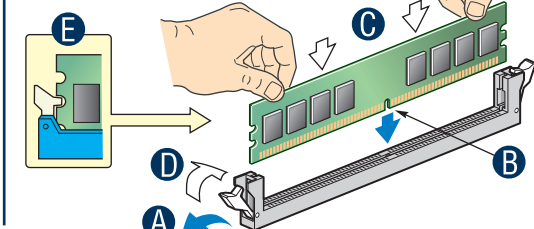
Memory sizing and configuration is supported only for qualified DIMMs approved by Intel. For a list of supported memory, see the tested memory list at <http://support.intel.com/support/motherboards/server/x38ml>



### To Install DIMMs:

**CAUTION:** Avoid touching contacts when handling or installing DIMMs.

- Open both DIMM socket levers.
- Note location of alignment notch.
- Insert DIMM making sure the connector edge of the DIMM aligns correctly with the slot.
- Push down firmly on the DIMM until it snaps into place and both levers close.
- IMPORTANT!** Visually check that each latch is fully closed and correctly engaged with each DIMM edge slot.



### Warning

Read all caution and safety statements in this document before performing any of the instructions. Also see the Intel® Server Board and Server Chassis Safety Information document at: <http://support.intel.com/support/motherboards/server/sb/cs-010770.htm> for complete safety information.

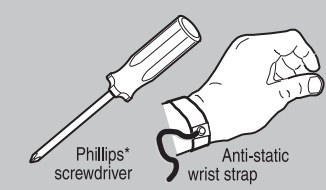
### Warning

Installation and service of this product should only be performed by qualified service personnel to avoid risk of injury from electrical shock or energy hazard.

### Caution

Observe normal ESD (Electrostatic Discharge) procedures during system integration to avoid possible damage to server board and/or other components.

### Tools Required



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