

Replacing SDRAM DIMMs

This flyer describes the following tasks for FAS3000 series systems, V-Series 3000 systems, and NetCache® C3300 or C2300 appliances:

- ◆ “[Removing an SDRAM DIMM](#)”
- ◆ “[Installing an SDRAM DIMM](#)”
- ◆ “[Completing the Replacement Process](#)”

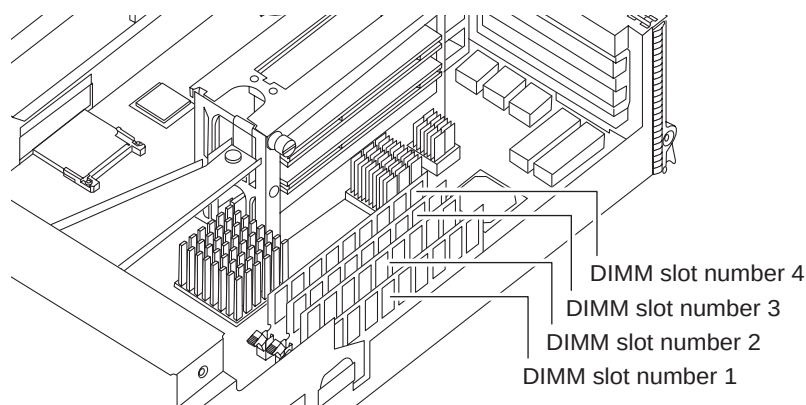
Supported DIMM Memory Configurations

The following table lists the supported memory configurations for your system.

Appliance Model	Standard Memory Configuration	Slot Locations
FAS3050/V3050	4 x 1-GB DIMMs—4 GB	1, 2, 3, and 4
FAS3020/V3020	2 x 1-GB DIMMs—2 GB	1 and 2
C3300 NetCache appliance	2 x 1-GB DIMMs—2 GB	1 and 2
C2300 NetCache appliance	2 x 512-MB DIMMs—1 GB	1 and 2

DIMM Locations

The following figure shows the location of the DIMM slots in your system.



Removing an SDRAM DIMM

To remove an SDRAM DIMM, complete the following steps:

1. Perform a clean system shutdown by entering the following command from the system console:

`halt`

Caution

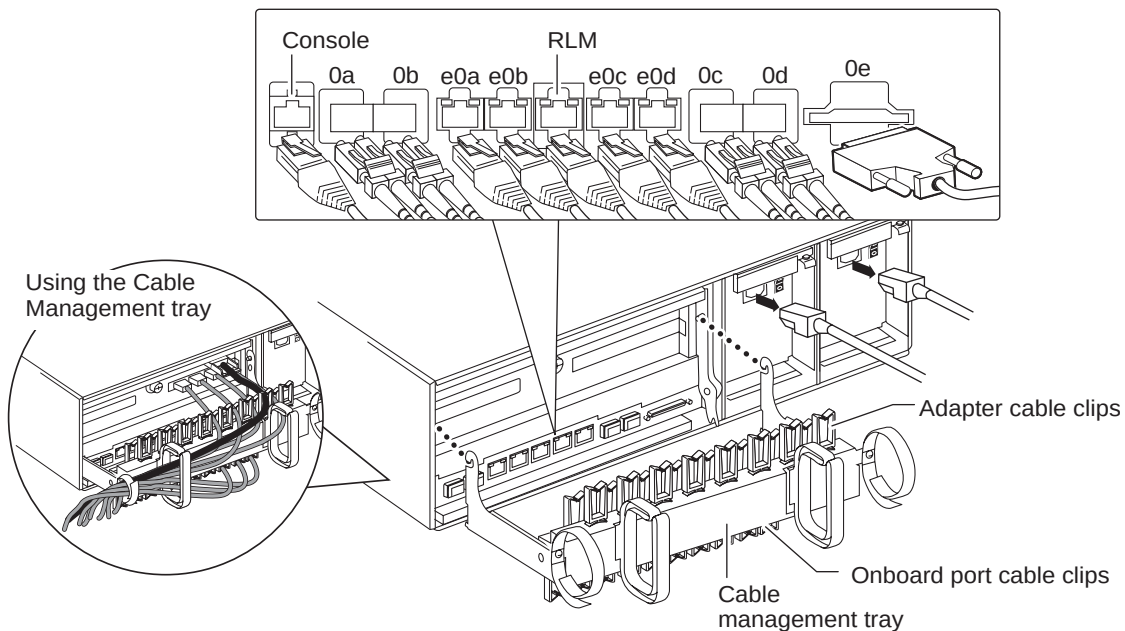
You must perform a clean shutdown to replace components inside your system.

2. Ground yourself to the system chassis using the grounding leash, and then turn off the power to the system.

IF your system uses AC power supplies, unplug the power cords from the power source, and then remove the power cords.

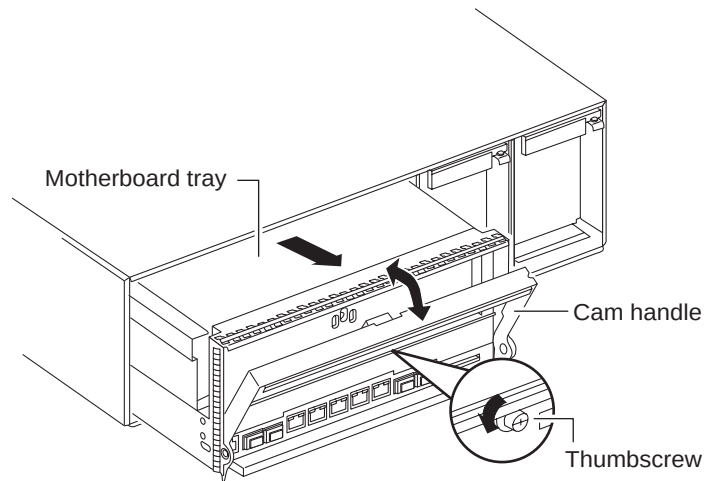
IF your system uses DC power supplies, remove the power at the DC source. Remove the DC wires, if necessary.

3. Remove the cable management tray by completing the following substeps, using the figure for reference:

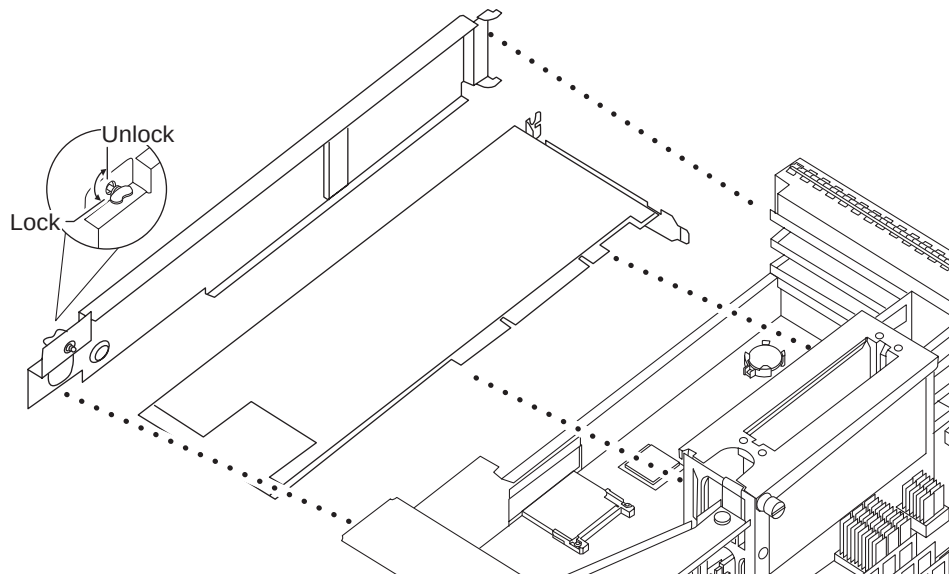


- a. Unplug all the cables from the back of the motherboard tray.
Do not remove the cables from the cable clips, so that when you reinstall the cable management tray, the cables are already aligned with the correct ports on the system.
 - b. Grasp the cable management tray by the side, gently push one side of the tray so that the arm slides across and off the retaining pin, and then lift it off the back of the motherboard tray and set it aside.
4. Loosen the thumbscrew on the cam handle, shown in the figure in Step 5.

5. Using the figure for reference, open the motherboard tray by pulling the cam handle downward and sliding the tray out of the system until it catches. Make sure that you support the bottom of the motherboard tray with your free hand.

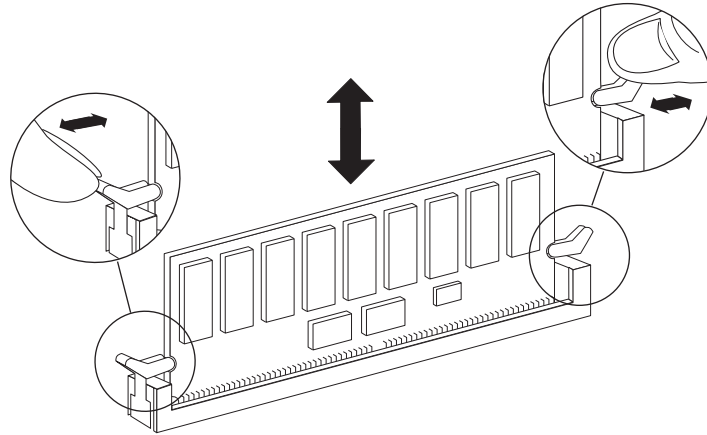


6. Release the motherboard tray from the system by gently lifting the retaining latch under the motherboard tray, sliding the motherboard tray all the way out of the system, and then placing the motherboard tray on a stable, grounded surface.
7. Remove any PCI adapters that might be directly over the DIMMs by completing the following substeps, using the figure for reference:



- a. Turn the motherboard tray on its side, locate the locking wing nut, and then push down and turn the locking wing nut one quarter turn.
- b. Swing the side panel away from the motherboard tray.
- c. Remove the PCI adapters, if necessary, and then lay the motherboard tray on its bottom.

8. Locate the DIMM you want to remove, push apart the latches on either side of the DIMM to release the DIMM from its slot, and then lift it out of the slot.



Installing an SDRAM DIMM

To install an SDRAM DIMM, complete the following steps:

1. Remove the motherboard tray, if necessary, as described in “[Removing an SDRAM DIMM](#)” on page 2.
2. While grounded, remove the replacement DIMM from the antistatic shipping bag and set it down in a safe place.
3. Locate the slot where you are installing the new DIMM.
4. Hold the DIMM by the corners and insert the DIMM straight into the slot. The DIMM fits tightly in the slot, but should go in easily. If not, realign the DIMM with the slot and reinsert it.

Caution

Visually inspect the DIMM to verify that it is evenly aligned and fully inserted into the slot. The edge connector on the DIMM must make complete contact with the slot.

5. Push carefully, but firmly, on the top edge of the DIMM until the latches snap into place over the notches at the ends of the DIMM.
6. Reinstall the PCI adapters, if necessary, and then close and lock the side panel of the motherboard tray. Make sure that you align the side panel with the notches in the chassis frame.
7. Reinstall the motherboard tray by completing the following substeps:
 - a. Align the end of the tray with the motherboard tray opening in the system.
 - b. Gently push the motherboard tray back into the system. The cam handle begins to engage when the motherboard tray is properly seated all the way inside the system.
 - c. Firmly push the cam handle to finish seating the motherboard tray in the system, and then lift the cam handle to the closed position.
 - d. Tighten the thumbscrew beneath the cam handle.
8. Reinstall the cable management tray and recable the system, as needed.

9. Recable the system, if necessary, reconnect the power cables to the power supplies, and then turn on the power to the system.
10. Reboot the system, and then run diagnostics to ensure that the new DIMM is functioning properly. See the *Diagnostics Guide* on the NOW™ site for more information.

Completing the Replacement Process

Return the failed part to Network Appliance, as described in the SRA instructions shipped with the kit. Contact NetApp® technical support at 408-822-6686 if you need the SRA or help with the replacement procedure.