Replacing Sun Fire V20z or Sun Fire V40z Memory Voltage Regulator Modules (VRM)

This document contains:

Refer to the Service Label, on the inside of the chassis cover, for the location of the component.

To Replace a Memory VRM in a Sun Fire V20z Server

1. **Turn off the system, including any attached peripherals.**

2. **While pressing the cover latch release button with your right thumb (A), slide the cover towards the rear of the chassis until it contacts the stop (B).**
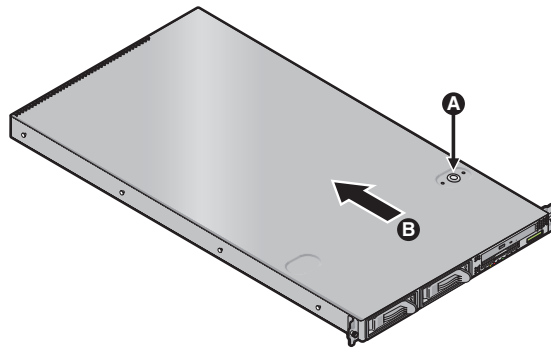
3. **Lift the cover up and remove it.**

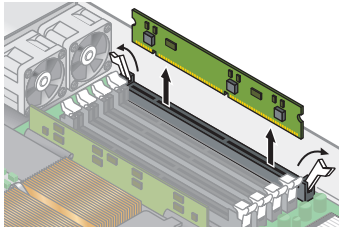**FIGURE 1**   Removing the Cover

4. **Identify the memory VRM that needs to be replaced.**

5. **Remove a memory VRM by pressing down on the ejector bars at both ends of the socket.**

Installation is the reverse of this procedure.

Note – Check the routing of all cables for obstructions before reinstalling the cover.

FIGURE 2   Removing a Memory VRM

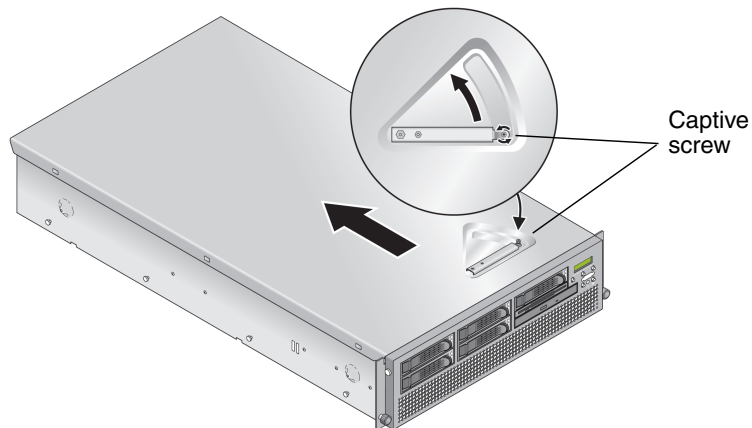## To Replace a Memory VRM in a Sun Fire V40z Server

This section contains:

To Replace a Memory VRM on a Sun Fire V40z Motherboard

1. **Turn off the system, including any attached peripherals.**

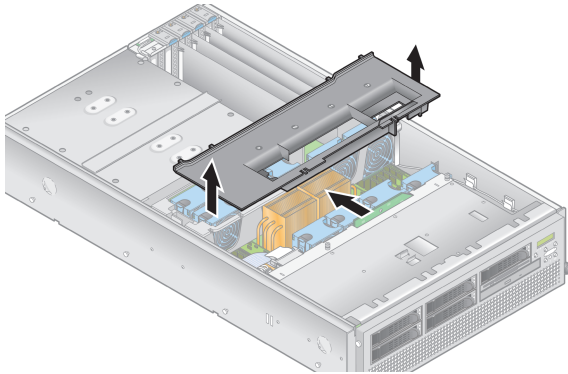   Refer to the *Sun Fire V20z and Sun Fire V40z Servers User Guide* for full instructions on powering off the server.

2. **Loosen the captive screw on the cover latch, then rotate the latch toward the system rear to push back the cover.**

3. **Lift the cover up and remove it.**

Captive screw
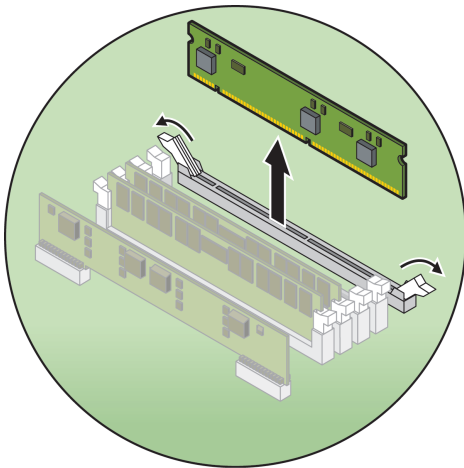
FIGURE 3   Removing the Sun Fire V40z Cover

4. **Remove the main air baffle (see** FIGURE 4**).**

   Lift the rear edge of the baffle, then move it toward the server rear to disengage the hooks on the front edge of the baffle.

FIGURE 4   Removing the Main Air Baffle

5. **Identify the memory VRM that must be replaced.**

6. **Remove a memory VRM by pressing down on the ejector bars at both ends of the socket (see** FIGURE 5**).**
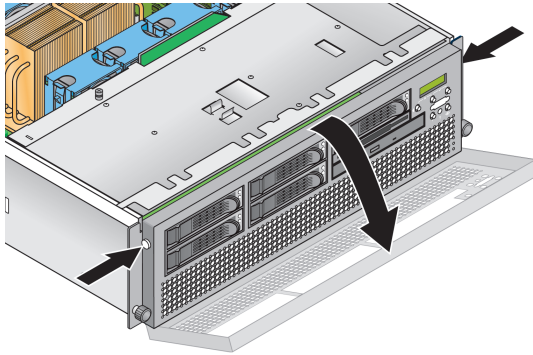

FIGURE 5   Removing a Memory VRM

7. **Install the new VRM to the socket by pressing down firmly and evenly on both top corners, until the ejector levers close over the notches on the VRM.**

8. **Replace the main air baffle.**

9. **Check the routing of all cables for obstructions and then reinstall the cover.**
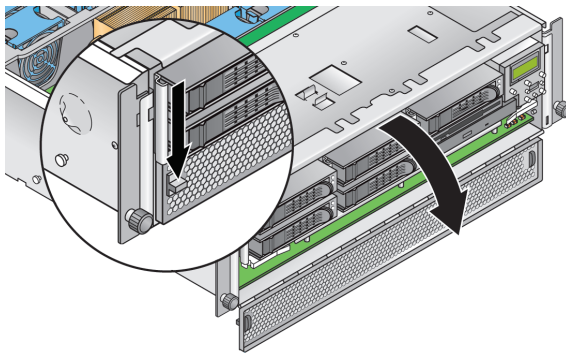
To Replace a Memory VRM on a Sun Fire V40z CPU Card

1. **Remove the front bezel from the server by pressing in on the rubberized buttons on each side of the bezel, then swinging the bezel top downward (see** FIGURE 6**).**

FIGURE 6   Removing the Front Bezel

2. **Open the CPU card door, which is located under the hard drive bays, to access the CPU card. Press in the two buttons on the door and swing it downward so that it is open 180-degrees from the closed position (see** FIGURE 7**).**
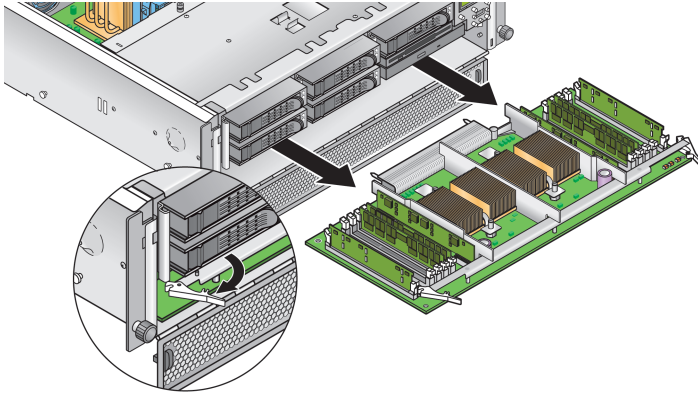

FIGURE 7   Opening the CPU Card Door

⚠ **Caution –** The electronic components and solder joints on the bottom of the CPU card are fragile. Use care to avoid scraping the bottom of the CPU card on the chassis or door when removing or installing it.
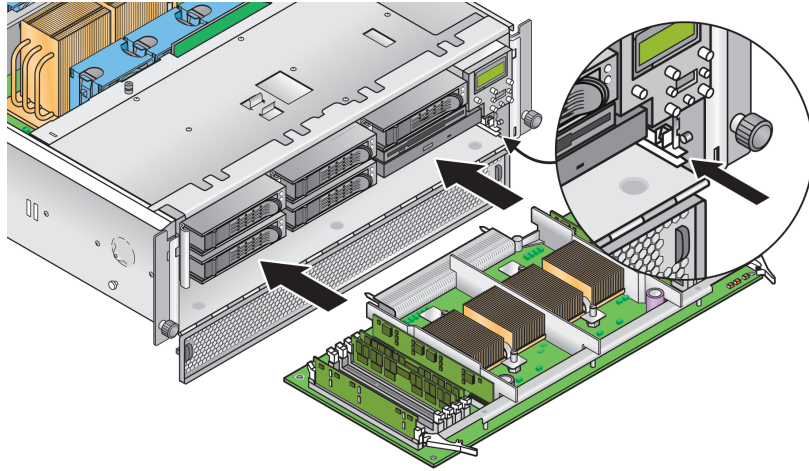
3. **Open the two plastic levers on the CPU card corners *simultaneously* to release it from its backplane, then carefully pull it out of the server (see** FIGURE 8**).**

FIGURE 8   Removing the CPU Card From the Chassis

4. **Set the CPU card on an ESD-resistant surface.**

5. **Identify the memory VRM that must be replaced.**

6. **Remove a memory VRM by pressing down on the ejector bars at both ends of the socket (see** FIGURE 5**).**

7. **Install the new VRM to the socket by pressing down firmly and evenly on both top corners, until the ejector levers close over the notches on the VRM.**

8. **Replace the CPU card into the server (see** FIGURE 9**):**

   a. **Carefully align the rear corners of the CPU card with the plastic alignment tracks inside the server chassis, then slide the CPU card into the tracks.**

   b. **Press in firmly and evenly on both corners of the CPU card until it engages the backplane.**

   c. **Lock down the two plastic latches on the corners of the CPU card to secure it in place.**

FIGURE 9   Installing the CPU Card Into the Chassis

9. **Close the CPU door.**

10. **Replace the front bezel onto the server.**

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