AVERE

FXT 5XXX Series DIMM Replacement

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Revision History

Revision	Date	Description of Changes
A	March 20, 2019	Original Release

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1 Installing DIMMs

Perform the following steps to install additional DIMMs as required.

1.1 Prepare to remove the cover of the chassis by first removing the two flathead securing screws on the top rear of the cover. Retain the screws for subsequent reinstallation. See Figure 1.

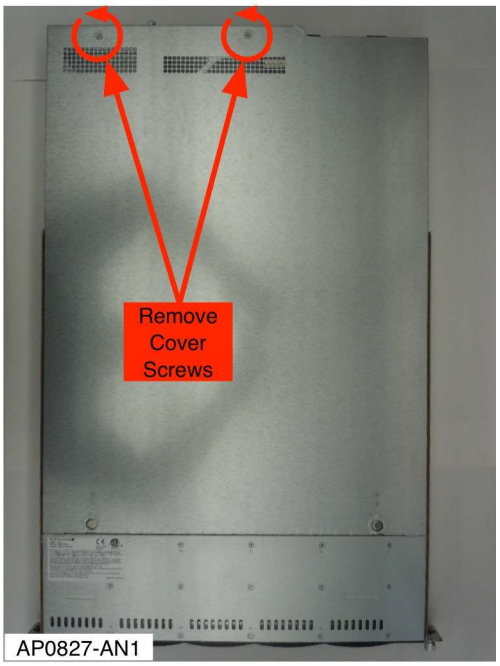

Figure 1: Removing Cover Screws

1.2 Begin removing the cover by depressing the two latches and sliding the cover rearward. See Figure 2.

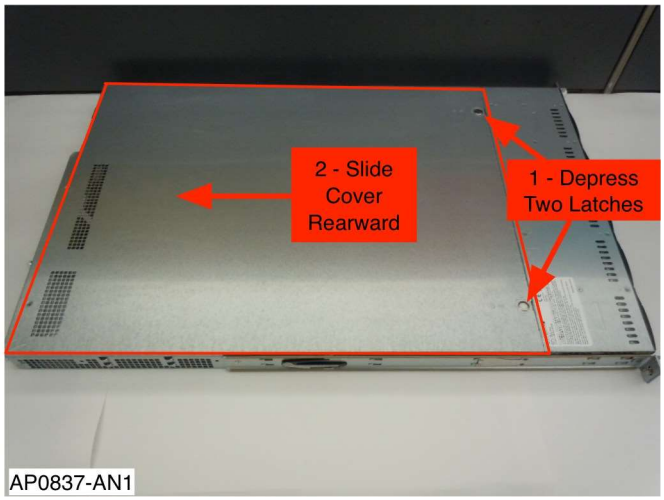

Figure 2: Removing Cover Steps 1 and 2

1.3 When the lid stops going rearward, there should be a gap between the lid and the front top section of the server. Lift the cover straight up to completely remove. See Figure 3.

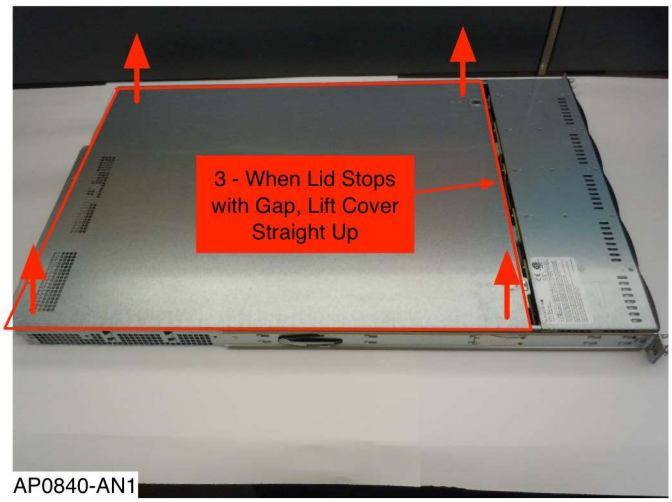

Figure 3: Removing Cover Step 3

1.4 There are 2 CPUs. Each CPU has 4 memory channels, for a total of 2 X 4 = 8 memory channels. Each memory channel has 3 sockets for a total of 8 X 3 = 24 memory sockets.

1.5 Using either the HWMAP.PY report or the RMA request, Identify the DIMM(s) that need to be replaced.

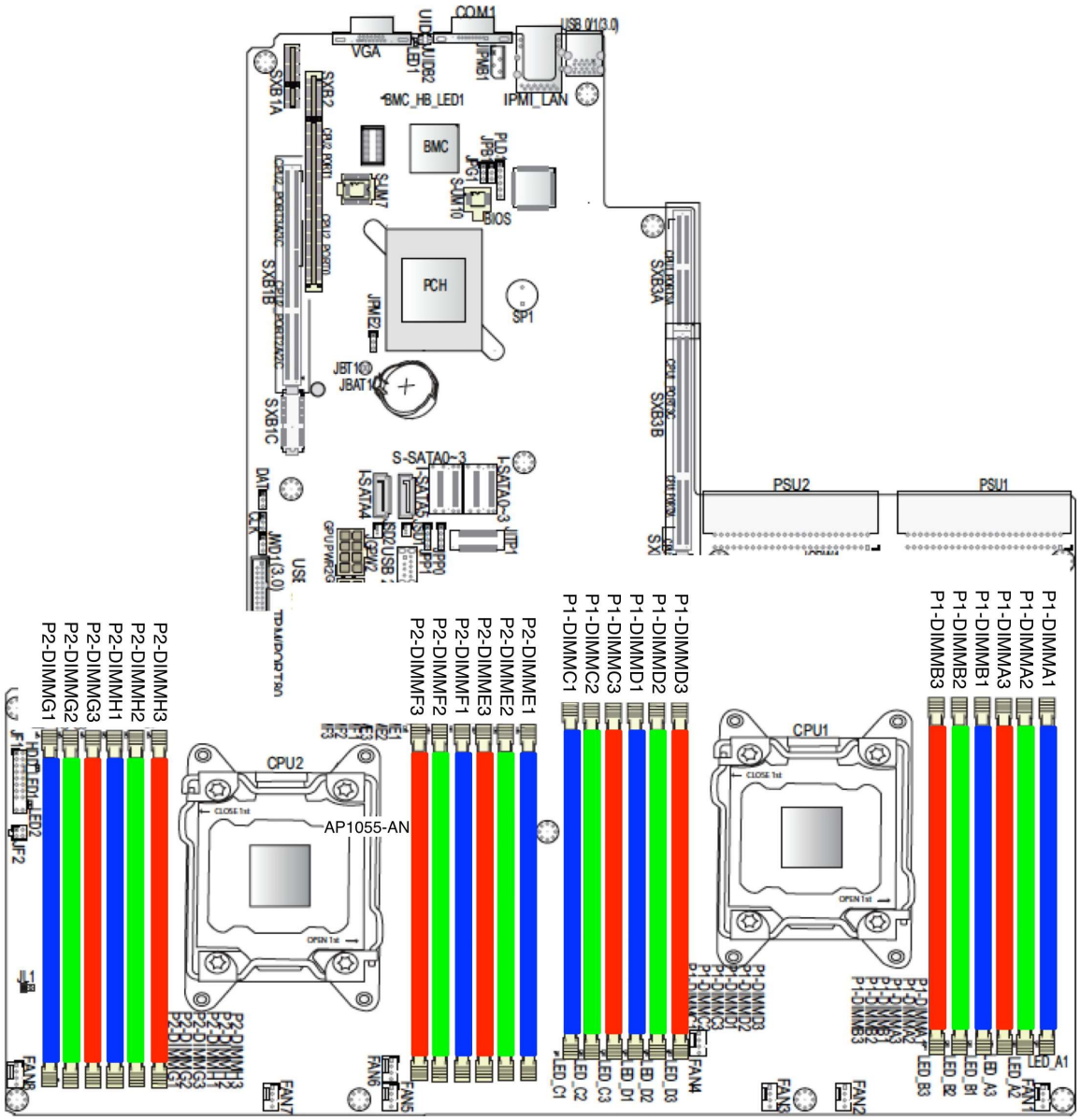

Figure 4: Motherboard DIMM Population Diagram

1.6 Locate the DIMM(s) provided in the RMA Kit. See Figure 5.

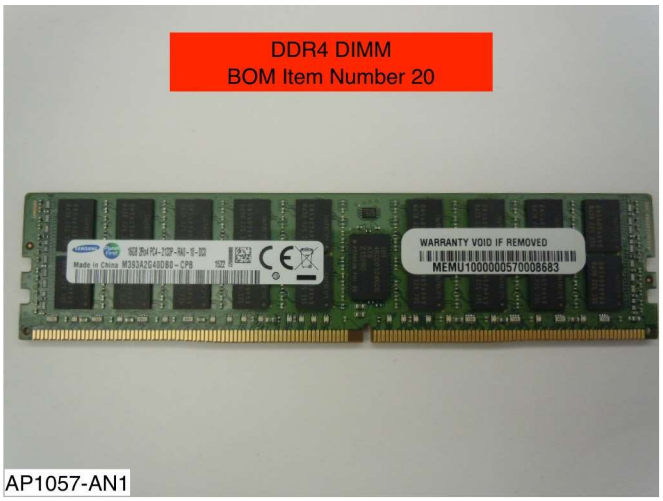

Figure 5: DDR4 DIMM Identification

1.7 For each of the DIMMs to be installed, perform the following steps:

1.7.1 Open the two injector/ejector latches on the DIMM socket by pushing each latch outward away from the socket. See Figure 6 and Figure 7.

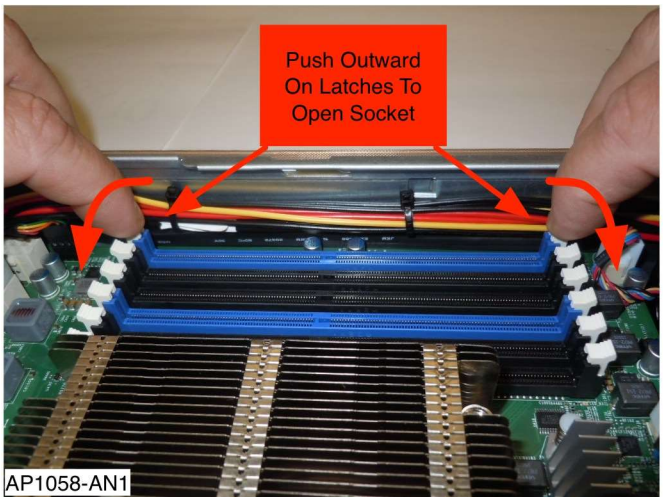

Figure 6: Opening Socket

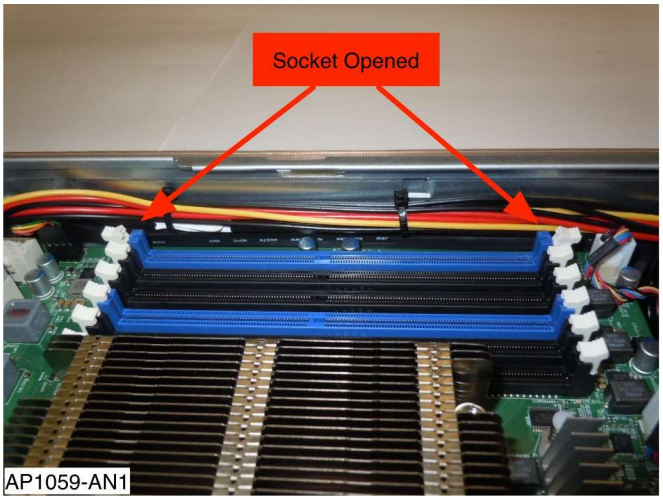

Figure 7: Socket Opened

1.7.2 Remove the defective DIMM(s) from the Slot(s).

1.7.3 Locate the notch in the gold finger area at the bottom of the DIMM. This is the DIMM key. Locate the molded plastic divider in the base of the DIMM socket. This is the socket key. Align the key in the DIMM with the key in the socket. See Figure 9.

CAUTION! There is only one correct orientation of the DIMM denoted by the key on the DIMM and the key on the socket.

CAUTION! For each CPU, the 6 DIMM sockets one side of the CPU are rotated 180 degrees with respect to the 6 DIMM sockets on the other side of the CPU. See Figure 10.

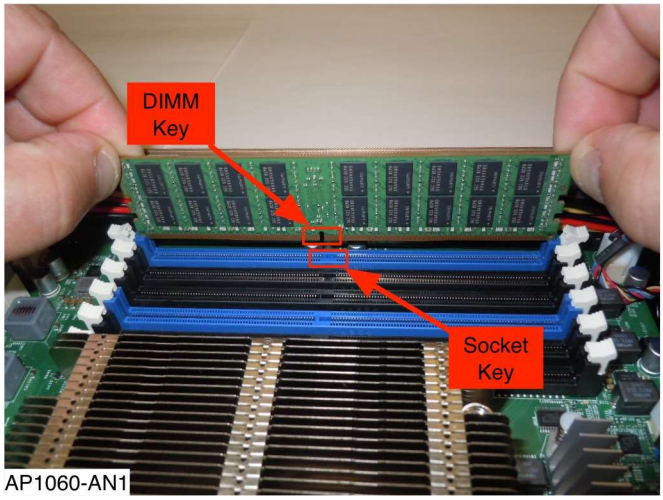

Figure9: Preparing To Install DIMMs

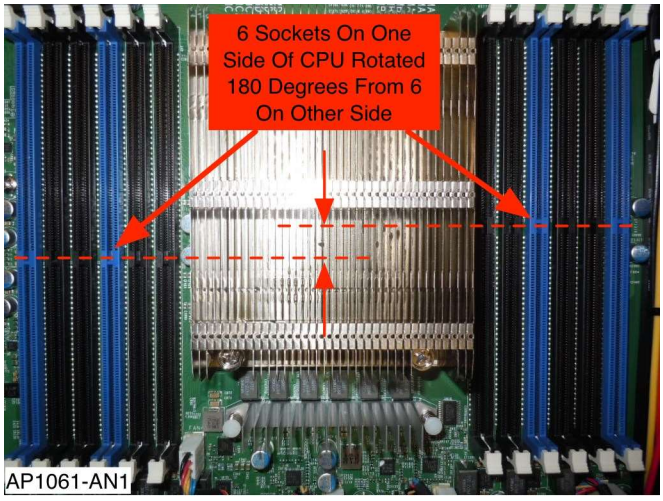

Figure 10: 180 Deg Socket Rotation Around CPU

1.7.4 Using both thumbs, apply firm even downward pressure on the top edge of the DIMM, near the outer ends. Keep the DIMM steady and vertical when applying pressure. The DIMM should snap into place and the latches should rotate inward. See Figure 11 and Figure 12.

CAUTION! Do not apply excessive downward force to the DIMM. Applying force beyond which is necessary to properly seat the DIMM can damage the socket, motherboard, or crack solder joints on the socket or surrounding motherboard components.

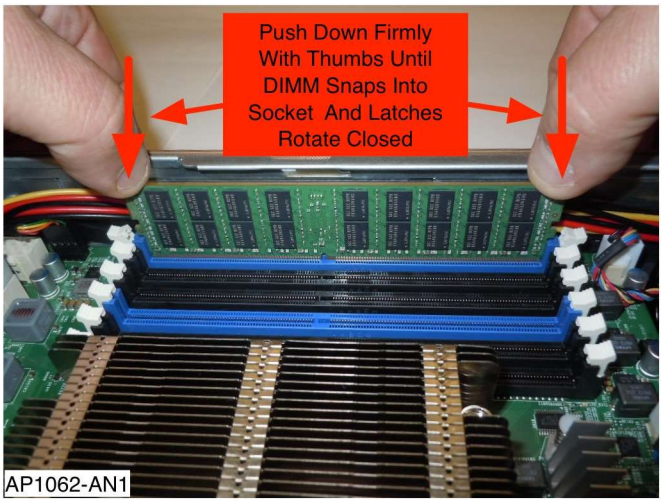

Figure 11: Installing DIMM

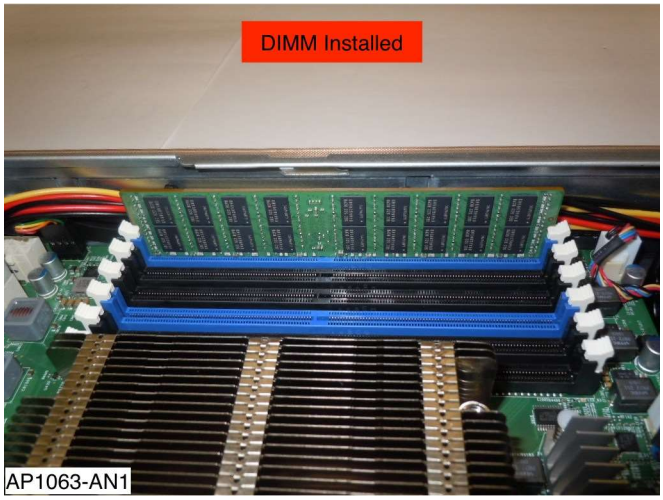

Figure 12: DIMM Installed

1.8 DIMM installation is complete.

1.9 Replace the metal top cover by positioning the cover above the chassis with the cover aligned so it will leave a gap between the front cover edge and the rear-most edge of the permanent chassis top front area, then lower the cover straight down. See Figure 13.

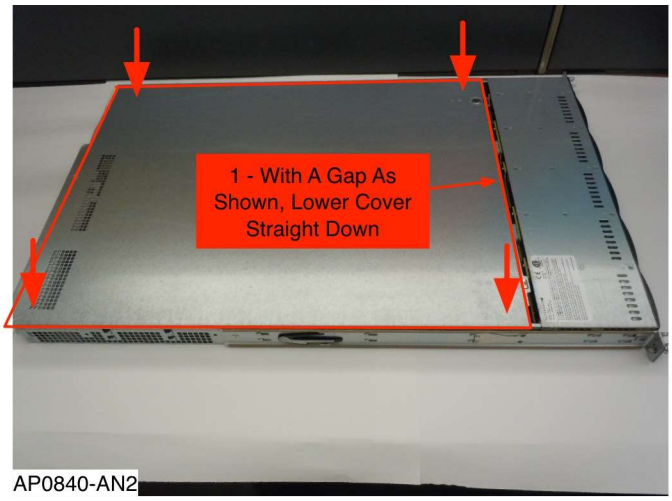

Figure 13: Installing Cover - Step 1

1.10 Slide the cover forward until the two latches engage. See 4.

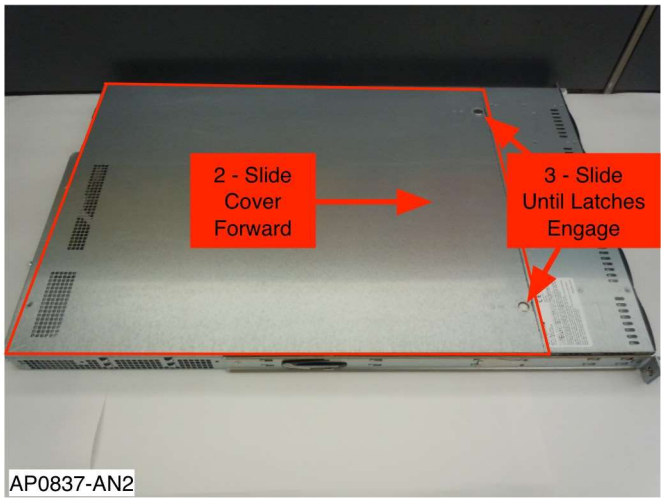

Figure 14: Installing Cover – Steps 2 and 3

1.11 Locate the two flathead securing screws previously set aside. Install them into the cover and tighten. See Figure 15.

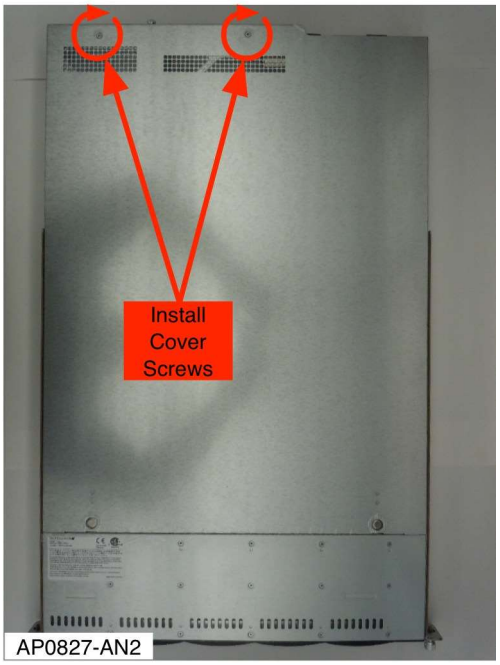

Figure 15: Installing Screws Into Top Cover

End Of Procedure