

# Correction Information for "SSA Adapters User's Guide and Maintenance Information" SA-3272-02

This procedure replaces MAP 2410 on page 13-49

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## MAP 2410: SSA Repair Verification

This MAP helps you to verify a repair after a FRU has been exchanged for a new one.

**Attention:** Unless the using system needs to be switched off for some other reason, *do not switch off the using system when servicing an SSA link or an enclosure in which SSA devices are installed.* Enclosure power cables and external SSA cables that connect devices to the using system can be disconnected while that system is running.

1. (from step 3 in MAP 2010: START; steps 3 and 5 in MAP 2320: SSA Link; step 3 in MAP 2323: SSA Intermittent Link Error; step 5 in "MAP 2324: SSA RAID" on page 13-30)

Before you arrived at this MAP, you exchanged one or more FRUs for new FRUs. Some of those FRUs have Power lights (for example, disk drives and fan-and-power-supply assemblies). Check whether all those Power lights are on.

**Do all the FRUs that you have exchanged have their Power lights on (where applicable)?**

**NO** 1. Exchange, for a new one, the FRU whose Power light is off.

2. Go to step 2.

**YES** **Go to step 2.**

2. (from step 1)  
**Are all Check lights off?**

**NO** **Go to the START MAP for the enclosure in which the device that has its Check light on is installed.**

**YES** 1. Run diagnostics, in System Verification mode, to the device that reported the problem.

**Notes:**

1. Do not run Advanced Diagnostics; otherwise, errors are logged on other using systems that share the same loop.

2. If you have just exchanged a disk drive or an SSA adapter, you might need to run cfgmgr to restore the device to the system configuration.

2. If the original problem was not reported by a device, run diagnostics to each SSA adapter in the using system.

3. Go to step 3.

3. (from step 2)

**Do you still have the same SRN?**

**NO**                      **Go to step 5.**

**YES**                     **Go to step 4.**

4. (from step 3)

**Have you exchanged All the FRUs that were originally reported by the SRN?**

**NO**    **Exchange the next FRU listed for the SRN.**

**YES**    1. Run diagnostics, in System Verification mode, to all the adapters that are in this SSA loop.

2. Run diagnostics, in System Verification mode, to all the disk drives that are in this SSA loop.

3. Run the Certify service aid (see "Certify Disk Service Aid" on page 12-18) to all the disk drives that are in this SSA loop.

4. Correct all errors that are reported by the diagnostics.

5. Go to step 6

5. (from step 3)

Type smitty ssaraid and press Enter.  
Select **Change/Show Use of an SSA Physical Disk.**

Are any disk drives listed as "SSA physical disks that are rejected"?

**NO** Go to step 6.

- YES**
1. Run diagnostics in System Verification mode to all the disk drives that are listed as rejected.
  2. Run the Certify service aid (see "Certify Disk Service Aid" on page 12-18 ) to all the disk drives that are listed as rejected.
  3. If any problems occur, exchange the failed disk drives for new disk drives (see "Exchanging Disk Drives" on page 10-1).
  4. Go to step 35 on page 13-48 to add the disk drive to the group of disk drives that are available for use by the RAID manager.

**Note:**

- A disk drive that is listed as rejected is not necessarily failing. For example, the array might have rejected the disk drive because a power problem, or an SSA link problem, caused that drive to become temporarily unavailable. Under such conditions, the disk drive can be reused.
- If you think that a disk drive has been rejected because it is failing, check the error log history for that disk drive. For example, if you suspect pdisk3, type on the command line:
- `ssa_ela -l pdisk3 -h 5`
- This command causes the error log for pdisk3 to be analyzed for the previous five days. If a problem is detected, an SRN is generated.

6. (from step 3)

Run the repair verification or repair completion procedures that are defined by your using system. If your subsystem contains RAID arrays, go to the **RAID Checkout** at 28 on page 13-45 of MAP 2324: SSA RAID.