INSTALLATION INSTRUCTIONS

Upgrade System and Cache Memory in IBM 3494 HA1 and Lxx Library Managers

Document Number 08L6052 EC C70607C

SSD - Tucson

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Status: Field Use

Note: Install this Field Bill of Material (FBM) only on the 3494 Tape Library for which it was shipped.

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Before Install (Sections 1 through 8)

1.0 Machines Affected

This FBM affects all 3494 library managers with HA1 installed without EC D19293 that require system and cache memory upgrade.

2.0 Prerequisites

None

3.0 FBMs To Be Installed

3.1 Cache Memory Hardware

FBM	Qty	Description	
08L6052	1	Hardware and	
		Instructions	

4.0 Preparation

Check all items listed on the Bill of Material to determine that all parts have been received.

Use the following documentation:

- IBM Magstar 3494 Tape Library MI, EC C70609 or later.
- IBM 7588 Industrial Computer Information, Installation, Operation, Hardware Maintenance, S76H-4349-00.

5.0 Programming Updates

None.

6.0 Purpose and Description

This FBM provides memory upgrade for 3494 HA1 and Lxx library manager units to enhance library performance.

7.0 Installation Time

Machine Hours	System Hours	CE Hours
1.0	0.0	3.0

8.0 Special Tools, Materials, and/or Procedures Required

Warning: Some parts handled during this installation are sensitive to electrostatic discharge (ESD). See "Working with ESD-Sensitive Parts" in the **CARR** section of the *IBM 3494 Tape Library MI*.

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Details of Installation (Sections 9, 10, and 11)

9.0 Safety

9.1 Safety Notice

None

10.0 Details Of Installation

Note -

In this procedure, the standby Library Manager will be upgraded first while the active Library Manager continues to run. Then you will switch the active Library Manager to standby and upgrade it.

10.1 Power Off the Standby LM

- 1. If the standby LM is in the L1x frame (LMA) and the frame contains a tape subsystem, ask the operator to take the tape system(s) in the L1x frame offline to all hosts (power to the L1x frame will eventually be turned off).
- 2. If applicable, disable dual active accessors. Make sure that local Accessor is active on the active LM (A and A or B and B). If not, use the **Mode** pulldown menu to switch accessors.
- __ 3. Select **Shutdown** from the standby LM **Mode** pulldown menu.
- 4. When the LM shutdown completes, select Shutdown for Reboot from the Shutdown panel.

When the shutdown completes, turn off the CB1 breaker on the PCC to power off this frame.

Restrictions in this Mode: The library will indicate that it is running in degraded mode because the standby LM is not enabled.

Go to Section 10.2, "Upgrade Library Manager Memory."

10.2 Upgrade Library Manager Memory

Attention -

Electrostatic-sensitive parts will be removed and installed in this procedure.

1. Follow the procedure in "Removing the IBM SBC" in the **Installing Options** chapter of the *IBM 7588 Industrial Computer Information, Installation, Operation, Hardware Maintenance*, then return here to the next step (read the following before performing the procedure).

Note: Before removing the SBC, disconnect all cables; these include keyboard/mouse, serial cables, CD-ROM, floppy drive, hard drive, and signal cables (color order from front of PC is green(P3) / yellow(P4) / red(P5) / white(P2)).

The mini connector (primary IDE controller) can be difficult to align. Leave the converter block connected to the SBC and remove the IDE cable from the converter block.

2. Refer to Figure 6-1 (IBM SBC Component Layout) in the IBM 7588 Industrial Computer Information, Installation, Operation, Hardware Maintenance for this step. Remove the 256K cache memory

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	e c	edge of the r connector. S	mo Se	odule up and et aside for p section 14.0,	arts disposition	า		-	needs to be pins closes rows are le	e replugged, in the total to the front frover).).	•
;	3. F	Follow the pr SIMMs" in th	ro ne	cedure in "R	Options chapte	er	_		•	ion change wi	the CB1 breaker. Il be detected as
	II F	nformation, Hardware Ma	In ai	<i>stallation, Ontenance</i> , th	<i>peration,</i> en return here					ne Post Startu s enter to cor	up Error panel ntinue.
	р	erforming th	nis	s procedure)		E				ne Configurat s enter to cor	ion Error panel ntinue.
	tl	To remove the two 16MB SIMMs, press the tabs outward on each end of the memory slots (note notch in each SIMM and slots from which SIMMs are removed). Carefully tip the SIMM once the tabs have been pressed, and tilt the							_	ion/Utility Setup sc key to exit.	
	a re tl							and		ect "Yes, Save Utility". This to reboot.	
	а	rea.		·	in a static-safe			9.		eboots, check s up to 64 ME	that the memory
'	to S	o the SBC, i SIMMs (PN 7 same slots fr	in: 76 ro	stall the repl 3H4389, two m which the	ent of the notch lacement 32ME supplied) in the 16MB SIMMs	3			and the rem	ote database	n standby mode copy will begin.
		vere remove nstall 512K			y as follows:		Mar	nag	•	. •	tch Active LM
	_	a. Posit modu the n	tio ule no	on the cache e (PN 76H43 tch on the b with the not	memory 391, supplied) ottom edge	SO .	If yo	ou l ary	have complet	ed the upgrad to section 1	
	_	mem and p	o pu	ish down ev	to the connect renly so that the		_	C	essor	Active	
	ir S C C r t t	Re-install then reverse for SBC" proceed thapter of the Computer Interpretation, Heturn here (compared to the signal compared to the sign	ur du le fo la N	nd in the "Re re in the Ins IBM 7588 li rmation, Ins rdware Main ote that the oles from th	owing the steps emoving the IB stalling Option industrial stallation, intenance then e color order for the front of the (P4) / red(P5)	M s or	_	2.	complete (the depending of the database field on the under the Status of the status of Ask the open jobs in the country subsystems	on the number e.). The Data Operational Status pulldown f the remote corrator to compliqueue and to win the library	to two hours of volumes in base Dual Write Status window in menu will show opy. ete or cancel vary all tape offline.
					wards. If the			3.		ode pulldown elect Offline.	menu on the As soon as the
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LM is offline, use the **Mode** pulldown menu to place the library in **Pause** mode.

- ___ 4. Use the **Mode** pulldown menu to switch Accessors.
- 5. After the accessor switch, use the **Mode** pulldown menu to switch active LM's.
- __ 6. When the new LM becomes active, use its Mode pulldown menu to change the library to Online and Auto.
- 7. At this point, the customer can start using the library again. If the new standby LM is in the L1x frame (LMA) and the frame contains a tape subsystem, have the operator to leave the tape system(s) in the L1x frame offline at all hosts (power to this frame will eventually be turned off).

Go to section 10.4, "Power Off New Standby LM."

10.4 Power Off New Standby LM

- __ 1. Select **Shutdown** from the standby LM **Mode** pulldown menu.
- ___ 2. When the LM shutdown completes, select

Shutdown for Reboot from the Shutdown panel.

When the shutdown completes, turn off the CB1 breaker on the PCC to power off this frame.

Restrictions in this Mode: The library will indicate that it is running in degraded mode because the standby LM is not enabled.

Upgrade this Library Manager by repeating the procedure in section 10.2, "Upgrade Library Manager Memory" on page 5.

11.0 Test Procedure

The test procedure was completed in the previous section.

If the LM is dual active, reactivate it.

Go to Section 12.0, "Field Updating" on page 9.

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After Installation (Sections 12 through 15)

12.0 Field Updating

None

13.0 Field Support Publications

None

14.0 Parts Disposition

Refer to the *Ownership of Parts Matrix* to determine the correct owner of removed or unused parts. Process all parts determined to be IBM property as follows:

USA

Provide all parts to the IBM Branch Office for potential return in accordance to existing return, recovery, and reclamation programs.

World Trade

Return removed parts to Country Central Stock per existing procedures.

15.0 Machine Records

- 1. Update machine history provided. Using existing procedures, update all appropriate field records to reflect that the EC update was installed in the 3494 Model Lxx serial number.
- 2. Using existing procedures, report installation and quality.

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