

IBM INSTALLATION INSTRUCTIONS

Model 3581 Rear Spring Upgrade

Document Number 18P6886 EC H28058

Storage Systems Division, Tucson

Written by: S. Trail
Checked by: C. Kovalik
Approved by: P. Webster
Support/DPCE Review by: S. Moulton
Status: Field Use

Before Installation (Sections 1 through 8)

1.0 Machines Affected

3581 Models L17, H17, L13, H13

1.1 Checkpoint

See Figure 1 on page 6 and Figure 2 on page 6. If EC H28058 appears in either of these label locations, then this EC is already installed.

2.0 Prerequisites / Concurrent / Companion

none

3.0 FFBM to be Installed

FFBM	Description
18P6885	Replacement spring, two locking nuts, EC label, and two internal cover screws and two external cover screws. The internal and external screws are in the FBM as spare parts.

4.0 Preparation

Read and understand the purpose and details of these installation instructions.

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

5.0 Program Updates

None.

6.0 Purpose and Description

The purpose of changing the spring is to eliminate or reduce the occurrences of Rear Tape errors.

Rear tape errors have been reported in areas with low temperatures and high humidity. Ensure that the temperature and humidity at the autoloader are within the environmental specifications.

The purpose of these instructions is to provide steps to replace the existing rear gripper spring with a new spring.

7.0 Installation Time

IBM Personnel:

Number of CE's	CE Hours	Machine Hours	System Hours
1	.5	.8	0

8.0 Special Tools and/or Materials Required

None.

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Installation (Sections 9, 10, and 11)

9.0 Safety



110 - 240 VAC

If the installation involves rework, remove all electrical power from the machine and any associated machines before beginning the installation. Observe normal safety precautions.

10.0 Details of Installation

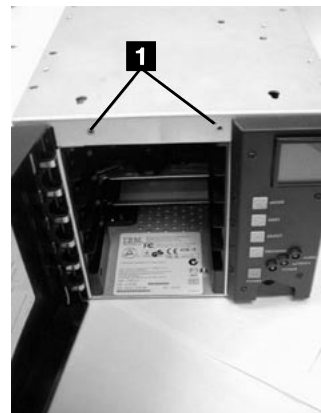
- 1. Check that all items listed in the Bill of Material were received. If all parts were not received, do not continue with the installation. Follow normal Branch Office procedures to obtain the missing parts.
- 2. Ask the customer to vary the autoloader offline.
- 3. Switch off the autoloader power.
- 4. Unplug the AC power cable from rear of the autoloader.

- 5. Unplug the SCSI cable from rear of the autoloader.
- 6. Remove the outside covers by removing six screws **1** (three screws on each side). Retain the screws.



hrs00002

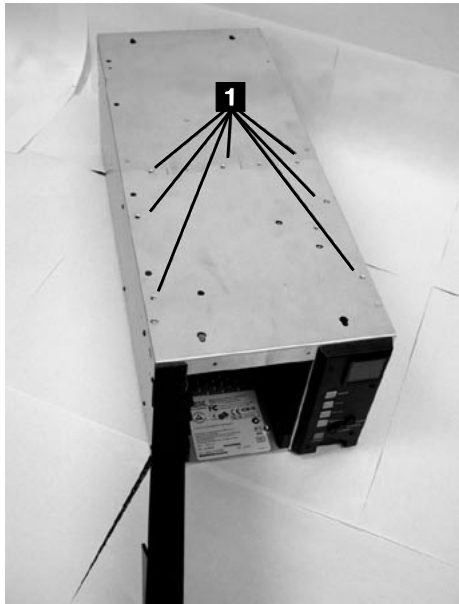
- 7. Remove and retain two screws **1** on the front of the autoloader.



hrs00003

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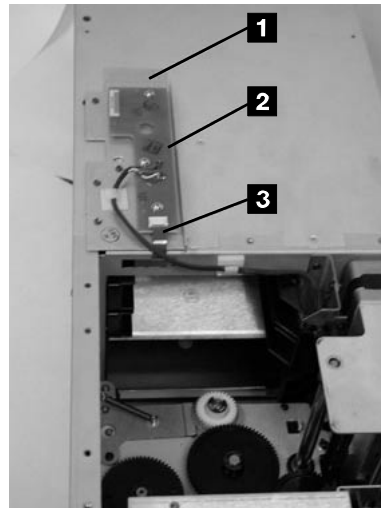
- 8. Remove and retain seven screws **1** from the top of the chassis as shown.



hrs00004

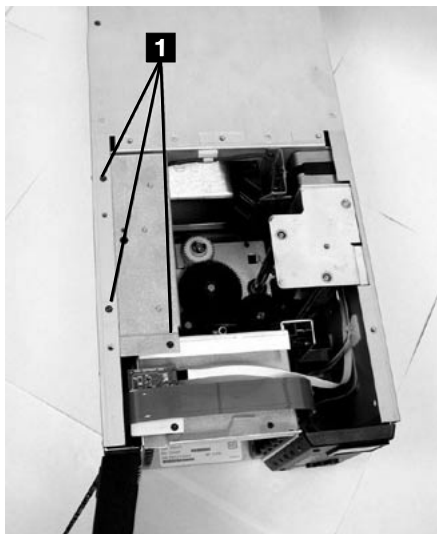
- 10. Slide sheet metal plate from under the autoloader chassis. Rest the plate on the top cover as shown.

Note: Do NOT remove the ribbon cable **3** attached to the circuit board on the sheet metal plate.



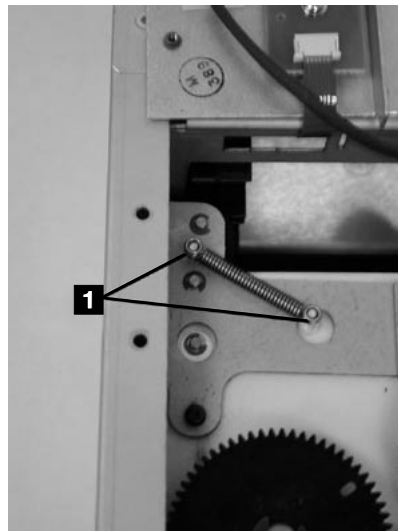
hrs00006

- 9. Remove and retain three screws **1** as shown.



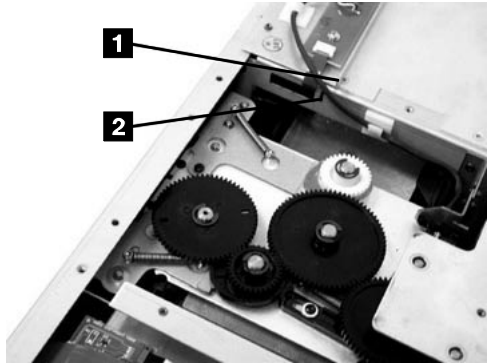
hrs00005

- 11. Remove the 5mm locknuts from both studs **1**. Remove the old spring from the studs and install the new spring. Install new locknuts provided in this FBM and tighten them flush with top of studs.



hrs00007

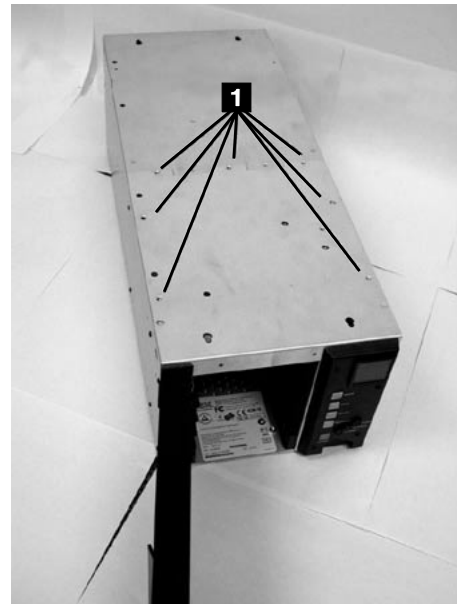
- ___ 12. Reinstall the metal plate removed in step 10 on page 4. Align tab **1** with slot **2** as shown.



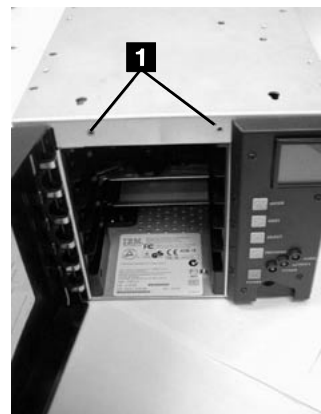
- ___ 13. Fasten the sheet metal plate with three screws removed earlier. Screws must be reinstalled in locations shown in the figure at **1**. Improper installation will cause interference with the top cover.



- ___ 14. Reinstall seven screws **1** as shown.



- ___ 15. Reinstall two screws **1** as shown.



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- ___ 16. See Figure 1. Place the new EC label **1** as shown to indicate the unit was modified with the new spring.



Figure 1. EC Label Placement

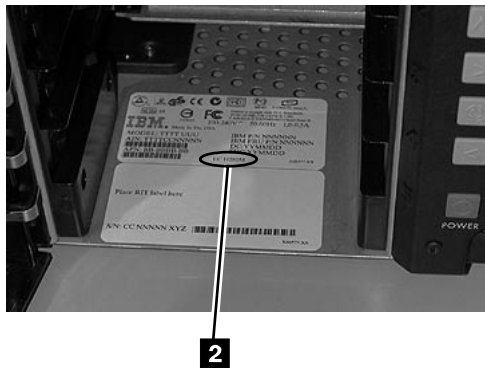


Figure 2. Machine Label

- ___ 17. Reinstall the outside covers with six screws **1** (three screws on each side) removed earlier.



- ___ 18. Connect the AC line cord to the autoloader.
- ___ 19. Switch ON the autoloader power.
- ___ 20. To verify proper operation, run the diagnostic, "Testing the Robotics" located in Appendix A of the Setup, Operator and Service Guide.

Repair all failures before continuing. Go to the troubleshooting section of the Setup, Operator and Service Guide.
- ___ 21. Connect the SCSI cable to the rear of the autoloader.
- ___ 22. Return the autoloader to the customer.

11.0 Test Procedure

Tests have been completed during the Installation.

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After Installation (Sections 12 through 15)

12.0 Field Updating

To report time use service code 33, ECA 017.
FFBM 18P6885

13.0 Field Support Publications

None.

14.0 Parts Disposition

Dispose of removed parts locally.

15.0 Machine Records

N/A