Maintenance Guide for User

English

Lotem 800 Family

731-00644A-EN

www.creo.com

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RE37,376	5,412,737	5,699,174	6,014,471	6,189,452	6,396,422	6,579,660
D478,608	5,420,702	5,699,740	6,016,752	6,191,882	6,407,849	6,587,211
4,558,302	5,420,722	5,708,736	6,043,865	6,204,874	6,409,331	6,589,710
4,743,091	5,459,505	5,713,287	6,060,208	6,205,364	6,414,755	6,590,635
4,992,864	5,473,733	5,742,743	6,063,528	6,208,369	6,422,801	6,593,064
5,049,901	5,481,379	5,764,374	6,063,546	6,214,276	6,425,565	6,601,888
5,113,249	5,488,906	5,771,794	6,072,518	6,217,965	6,430,136	6,605,407
5,132,723	5,508,828	5,785,309	6,090,529	6,252,241	6,435,091	6,609,459
5,155,782	5,509,561	5,802,034	6,093,447	6,252,522	6,441,914	6,611,363
5,157,516	5,517,359	5,813,346	6,096,461	6,255,033	6,443,571	6,618,187
5,177,724	5,519,852	5,818,498	6,098,544	6,260,482	6,450,092	6,628,435
5,208,818	5,576,754	5,854,883	6,107,011	6,266,080	6,456,396	6,632,584
5,208,888	5,579,115	5,861,904	6,112,663	6,266,134	6,471,335	6,637,329
5,247,174	5,583,551	5,861,992	6,115,056	6,267,054	6,476,342	6,637,860
5,249,067	5,592,309	5,875,288	6,116,160	6,268,948	6,476,931	6,640,713
5,283,140	5,594,556	5,894,342	6,121,996	6,270,204	6,477,955	6,641,772
5,291,273	5,600,448	5,900,981	6,130,702	6,283,589	6,493,064	6,641,978
5,305,091	5,608,822	5,934,196	6,134,393	6,295,076	6,494,965	6,646,669
5,323,248	5,615,282	5,946,426	6,136,509	6,299,572	6,503,691	6,648,468
5,325,217	5,625,397	5,947,028	6,137,580	6,318,266	6,509,903	6,652,088
5,339,176	5,625,766	5,958,647	6,147,789	6,328,408	6,511,163	6,654,147
5,343,059	5,636,330	5,966,504	6,158,345	6,336,708	6,520,084	6,660,997
5,355,446	5,649,220	5,969,872	6,159,659	6,340,817	6,530,317	6,661,561
5,359,451	5,650,076	5,973,801	6,164,637	6,352,816	6,541,181	6,665,048
5,359,458	5,652,804	5,986,819	6,165,658	6,353,216	6,544,336	6,665,121
5,367,360	5,680,129	5,995,475	6,180,325	6,366,339	6,545,772	6,670,986
5,384,648	5,691,823	5,996,499	6,181,362	6,371,026	6,550,388	6,684,783
5,384,899	5,691,828	5,998,067	6,181,439	6,377,739	6,564,018	6,704,123
5,412,491	5,696,393	6,003,442	6,186,068	6,387,597	6,567,713	

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Overview Lotem Controller

This document describes the periodic maintenance procedures to be performed on the Lotem 800 Family platesetters. The Lotem 800 Family includes the following:

- Lotem 800 (Fiber Head)
- Lotem 800 II
- Lotem 800 II with Spectrum
- Lotem 800 II Quantum
- Lotem 800 II Quantum with Spectrum
- Lotem 850 Quantum

Lotem Family refers to all the above mentioned machines unless otherwise specified.

Read the relevant *Safety Precautions for User* documentation before performing the periodic maintenance procedures.

Before performing periodic maintenance, verify that you have the items listed in the table below. If you do not have these items, then you should order them:

Table 1: Parts List

Name	Part Number
SMC triple filters kit for air unit	518-00630A
Festo air service unit filters - 3 filters	510K1R130
Conolog air service unit filters - 2 filters	342A10230
Cooling unit filter	55-0700
Debris removal filter	57-8792
Drum holes cleaning kit	510K1R593

The table below summarizes the periodic maintenance schedule. For details on each of the procedures, continue reading this document.

Table 2: Summary of Periodic Maintenance Procedures

#	Periodic Maintenance	Frequency	Replace Every...
1.	Drum vacuum holes	weekly/bi-weekly	
2.	Drum surface	weekly/bi-weekly (Spectrum machines, clean daily)	
3.	Edge detection strip	weekly/bi-weekly	
4.	Air pressure filter	weekly/bi-weekly	6 months
5.	Centering pins	weekly/bi-weekly	
6.	Punch disposal	6 months	
7.	Disposal rollers	weekly/bi-weekly (Spectrum machines, clean daily)	
8.	Unload rollers	weekly/bi-weekly (Spectrum machines, clean daily)	
9.	Cooling unit filter	weekly/bi-weekly	2 months
10.	UDRC	weekly/bi-weekly	6 months



Note: Depending on the media type and expose frequency, perform periodic maintenance either weekly or bi-weekly, unless otherwise mentioned.



Important: For platesetters with the Spectrum option, you must perform the following maintenance procedures every day:
1) Clean the drum surface
2) Clean the unload roller
3) Clean the proof loading bar vacuum and rollers
4) Clean the disposal rollers
5) Clean the carriage surface

Before You Begin

Before commencing any of the procedures described in this document, perform the following steps:

1. Remove the loading cassette to enable better access to the loading area. Perform the following steps:

    a. Click **Cassette Setup** on the **Main Operations** menu. Then from the submenu that opens, select **Release Cassette**, or:
    click on the cassette on the **Online machine view**. The **Online machine view** will then show the cassette outside the machine.



Figure 1: Main window showing the released cassette

    b. The pins that lock the cassette inside the platesetter are released. You will hear a tone indicating that the cassette lock is released.

    c. Go to the front of the cassette, and with your foot release the stoppers that lock the wheels of the cassette.

    d. Pull out the cassette.

    e. Roll the cassette to the location of the plates.

2. From the application, open the front doors as follows:



   a. From the **Routine Functions** menu, click the **Open Front Door** button.

   b. The door locking mechanism is released for 30 seconds. During these 30 seconds push the door slightly downwards.

   c. The door releases. Lift the door to open it completely.

   When the front door is open, the safety interlocks are activated. As a result, machine systems such as drum motor and laser system do not operate. The machine is in **Service** mode (**Status** indicator is purple) and the **Interlock** indicator appears below the **Status** indicator with the name of the open door.

Note: Press the Open button located on the upper left side of the air pressure unit. This opens the air inlet valve and the air supply flow resumes.You can interactively open the door by clicking on the front door in Online machine view.

3. To open the rear door,



   a. From the **Routine Functions** menu, click the **Open Rear Door** button.

   b. Repeat steps 2b and 2c above.

After you complete the above, proceed to perform the following periodic maintenance procedures. The periodic maintenance in its entirety should take up to half an hour to complete. Perform these procedures weekly or bi-weekly unless otherwise specified.

Drum

Drum Vacuum Holes

Clean the drum vacuum holes as follows:

1. Turn the drum vacuum **ON** during cleaning so that the loosened particles will be sucked through the holes. To do this on the Lotem Controller go to **Utilities > Hardware > Drum System > Drum Vacuum Pump**.

Note: For machines using software version 3.60.09, go to **Utilities > Hardware > Drum System > Drum Solenoids > Drum Vacuum Pump.**

2. Click **Start.**
3. Remove the cleaning jig (see *Figure 2*) located in the *Drum Hole Cleaning Kit, 510K1R593*, (Accessories kit).

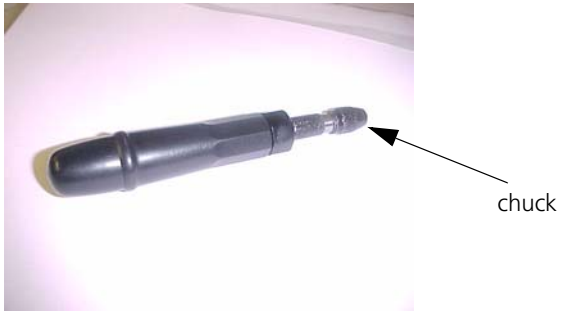


Figure 2: Cleaning jig

4. Open the chuck.
5. Insert the 0.8 mm drill.
6. Tighten the chuck.
7. Swivel the drill to open and clean the drum holes (see *Figure 3 on page 7*).
8. On the Lotem Controller, click **Stop** in the open dialog box.
9. On the distribution box, turn off the main power switch.

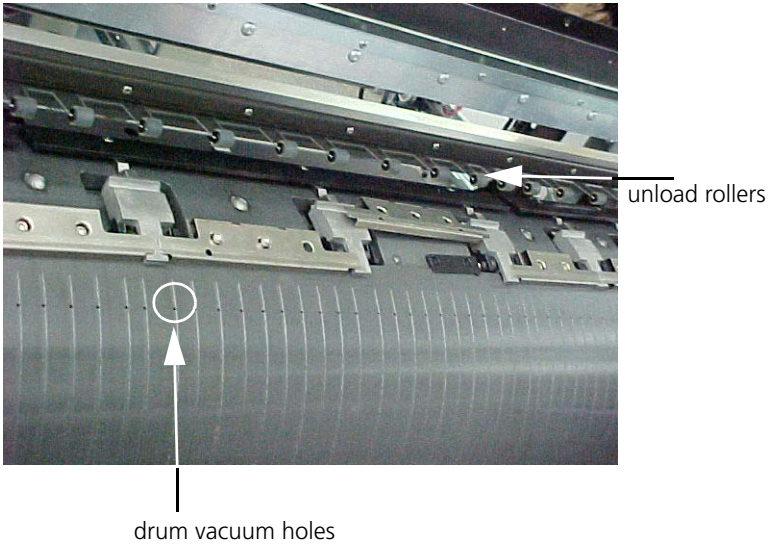


Figure 3: Drum vacuum holes

Drum Surface

➢ After cleaning the drum vacuum holes, use a cloth dampened in alcohol to clean the entire drum surface.



Figure 4: Cleaning the drum

Note: To prevent hotspots after cleaning the entire drum surface, make sure to wipe the drum in an up and down motion and not in a sideways motion.

Edge Detection Strip

Note: The following procedure is necessary *only* for *Quantum* and *Type II* machines.

➢ Use a cloth dampened in alcohol to clean the grooves and the edge detection strip.

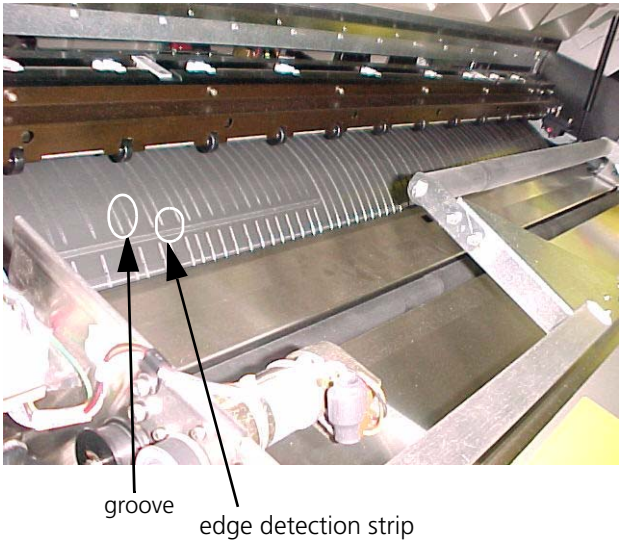


Figure 5: Drum and edge detection strip

Air Pressure Unit

Air Pressure Unit Types



Figure 6: SMC air pressure unit



Figure 7: Festo air pressure unit—three filters



Figure 8: Conlog air pressure unit—two filters

SMC Air Pressure Filters Unit

There are three air pressure filters in the SMC® air pressure unit. Inspect the filters periodically to make sure that they do not contain any water or oil, and replace them every six months.

Inspecting the SMC Air Filters

To inspect the air pressure filters:

- Inspect the air filter window to make sure that the filter does not contain any water or oil.



Figure 9: Air filter window

Note: You only need to inspect the two air pressure filter units closest to the air gauge.

- To drain any water or oil that exists in the air pressure filter units, press the orange button that is located at the bottom of the two filter units closest to the air gauge.



Figure 10: Draining water or oil

Replacing the SMC Filters

To replace the air pressure filters:

1. Turn the air inlet valve clockwise to shut off the air supply, located on the upper-left side of the unit.



Figure 11: Shutting off the air supply

2. Remove the filter case by pushing down the lever and rotating the case in a counterclockwise direction.



Figure 12: Removing filter case

3. Remove the filter cartridges by rotating them in a clockwise direction.

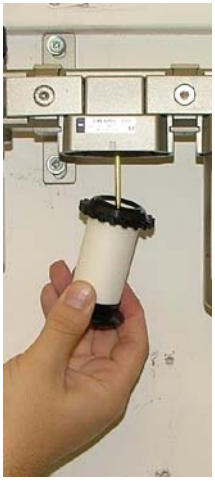


Figure 13: Removing filter cartridges

4. Replace the filter cartridges with the new filter cartridges, supplied in the air pressure unit kit.



Figure 14: New filter cartridges

Note: Do not to discard the black bases for the white filter cartridge.

5. Turn the air inlet valve counterclockwise to open the air supply, located on the upper-left side of the unit.

   This opens the air inlet valve and the air supply flow resumes.



Figure 15: Opening the air inlet valve

6. On the adhesive supplied in the kit, enter the date that the filter is replaced . Affix the adhesive to the air pressure unit.



Figure 16: Filter replacement date

Important: Check the air pressure gauge to make sure the air pressure is set to 7 bar (100 psi). If required, adjust the air pressure by turning the air inlet valve located under the air gauge



Figure 17: Checking air pressure gauge

Festo Air Filters Unit

There are three air pressure filters in the Festo® air pressure unit. Inspect the filters periodically to make sure that they do not contain any water or oil, and replace them every six months.

Inspecting the Festo Air Filters

To inspect the air filters:

- Inspect the air filter window to make sure that the filter does not contain any water or oil.



Figure 18: Air filter window

Note: You only need to inspect the two air pressure filter units closest to the air gauge (LFMPA AND LFMPX).

➢ To drain any water or oil that exists in the air filter units, rotate the blue switch in a clockwise direction. The switch is located at the bottom of each filter unit.

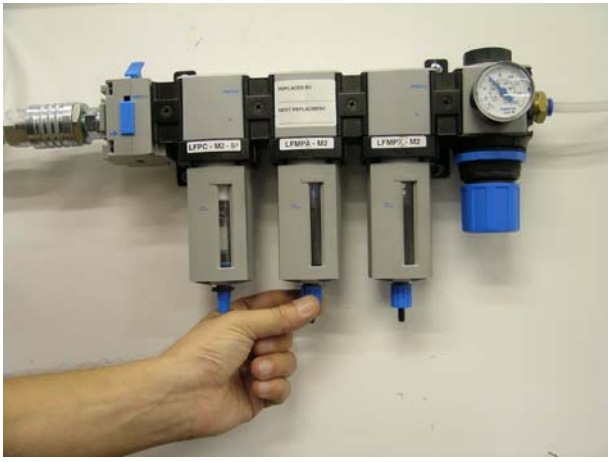


Figure 19: Draining water or oil

Replacing the Festo Air Filters

To replace the air pressure filters:

1. Press the Close button located on the upper-left side of the unit.

   This closes the air inlet valve and shuts off the air supply.

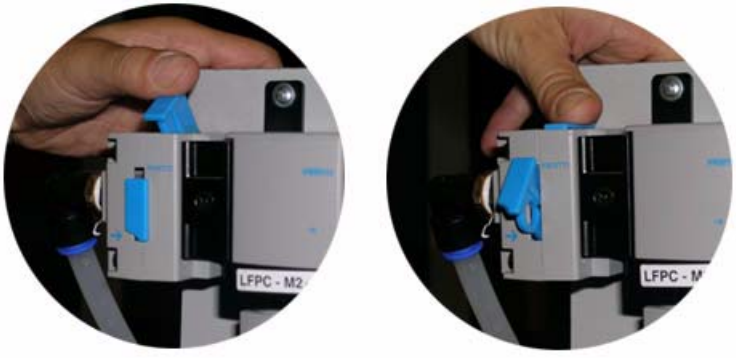


Figure 20: Shutting off the air supply

2. Remove the filter covers by rotating them in a counterclockwise direction.



Figure 21: Removing the filter covers

3. Remove the filter cartridges by rotating them in a clockwise direction.



Figure 22: Removing filter cartridge

4. Replace the filter cartridges that are supplied in the air pressure unit kit.



Figure 23: New filter cartridges

Note: Do not discard the black base for the white filter cartridge.



Figure 24: Black base of white filter cartridge

5. Press the Open button located on the upper-left side of the air pressure unit.

   This opens the air inlet valve and the air supply flow resumes.



Figure 25: Opening air inlet valve

6. On the adhesive supplied in the kit, enter the date that the filter is replaced. Affix the adhesive to the air pressure unit.



Figure 26: Filter replacement date

Important: Check the air pressure gauge to make sure the air pressure is set to 7 bar (100 psi). If required, adjust the air pressure by turning the blue air inlet valve located under the air gauge.

Conlog Air Filters Unit

Note: For more information about replacing Conlog® air filters, ask your service representative

Centering Pins

➢ Use a cloth dampened with alcohol to clean the centering pins.

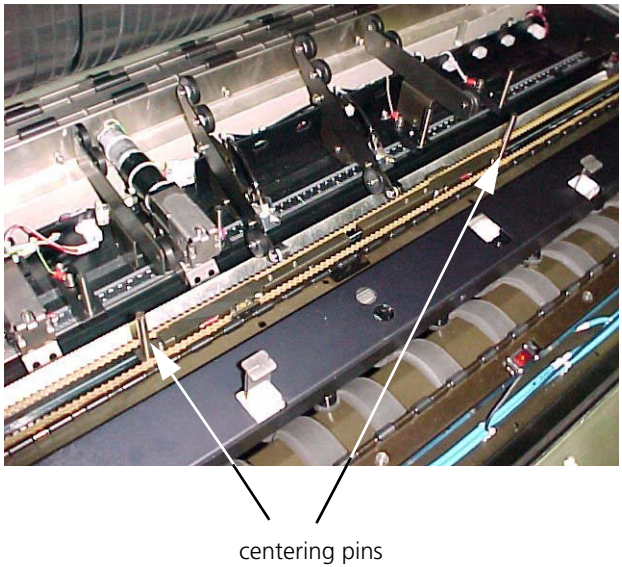


Figure 27: Lotem 800 front view, centering system

Punch Disposal

The punch slugs are collected into the punch container, which must be periodically emptied. There is no sensor in the system that detects when the container is full, so you must periodically perform a visual check. The frequency of this check depends on the number of plates you expose.

Note: The punch container has two sections for the left and right punch slugs. You need to check and empty each section separately.

To check the punch container and empty it when necessary:

1. At the left and right sides of the platesetter, look underneath and check the level of punch slugs in both sections of the punch container.
2. To empty the punch container (located underneath the paper disposal bin), open the left or right punch container opening (shown in the figure below).

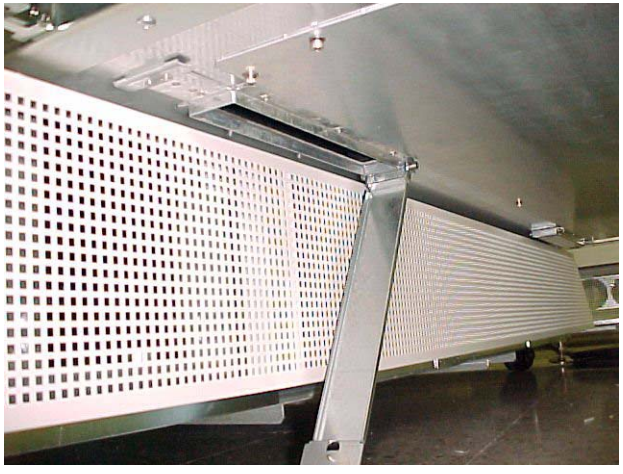


Figure 28: Opening the punch container

Tip: You can place a suitable box under the left or right opening to collect the punch slugs.

3. Close the punch container opening.
4. Dispose the punch slugs.

Disposal Rollers

1. Use a cloth dampened with rubber rejuvenator to clean the disposal rollers.
2. Remove any pieces of paper stuck inside.

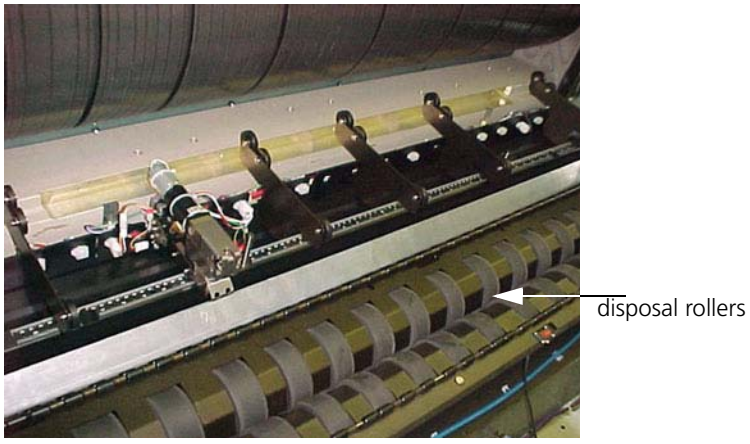


Figure 29: Disposal rollers

Note: Alchohol will shorten the lifespan of the rubber of the disposal rollers.

Paper Disposal

After 30 exposures, a message appears on the Lotem ControllerLotem Controller main window showing the current paper count. After 49 exposures, the message informs you that you will not be able to continue exposing after the next exposure unless you empty the paper disposal bin.

The following indications appear when you cannot continue exposing plates until the paper is removed:



- Status indicator shows **Attention**.
- A message in the Message dialog box requests that you remove the paper.

To empty the paper disposal bin:



Note: Do not open the paper disposal bin while the paper disposal motor is working. In software version 3.60.xx and higher, you can open the doors while the machine is operating, however you must remove the paper within 30-40 seconds, otherwise this might cause a failure.

1. Open the right or left door of the paper disposal bin (door location is shown in the *Figure 30 on page 25*).
2. Pull out the paper.
3. Close the door.



Figure 30: Paper disposal door (right side)

Unload Tray Rollers

- Clean the unloading tray, which includes the unloading tray rollers and the tray surface, with a rubber cleaner.

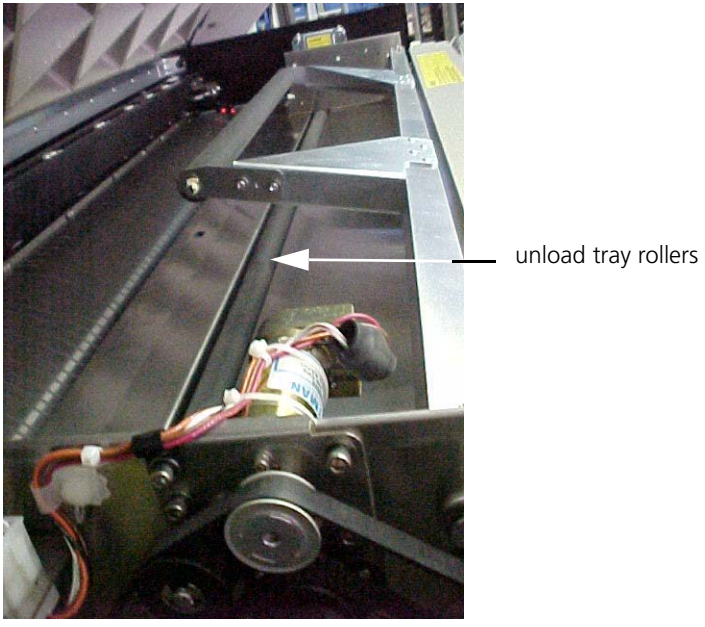


Figure 31: Unload tray rollers on Lotem 800 machines with omron interlocks

Cooling Unit Filter

Note: The following procedure is necessary *only* for *Quantum* and *Type II* machines.

The air intake pre-filter is located on the left side door. It should be replaced at least once a month. In dirtier environments, replace this filter more often.

1. Open the left side door of the machine.
2. Pull out the filter frame, the clips snap off (see *Figure 32 on page 27*).

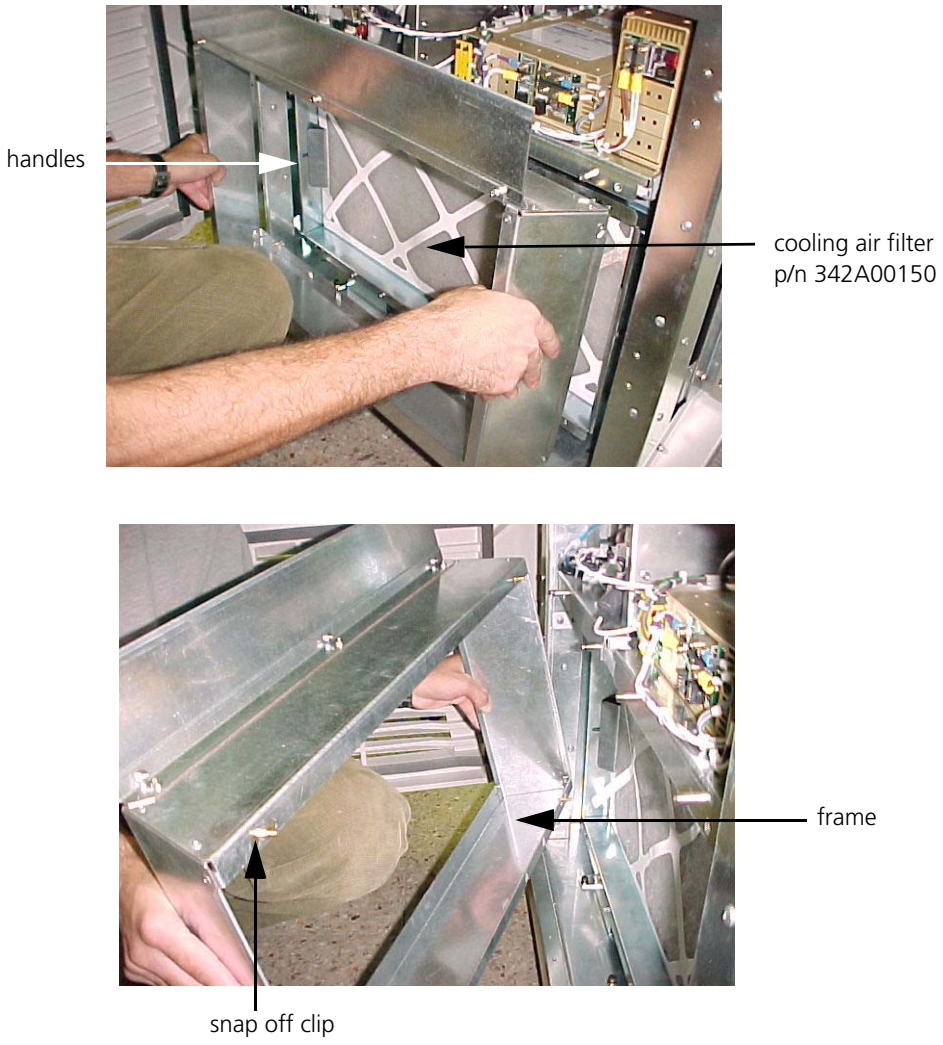


Figure 32: Cooling air filter.

Note: Some machines are equipped with screws rather than snap off clips. On those machines, release the 6 screws (type 8-32, length = 3/8 inches) and pull off the air filter cover, as shown in *Figure 33 on page 28*.

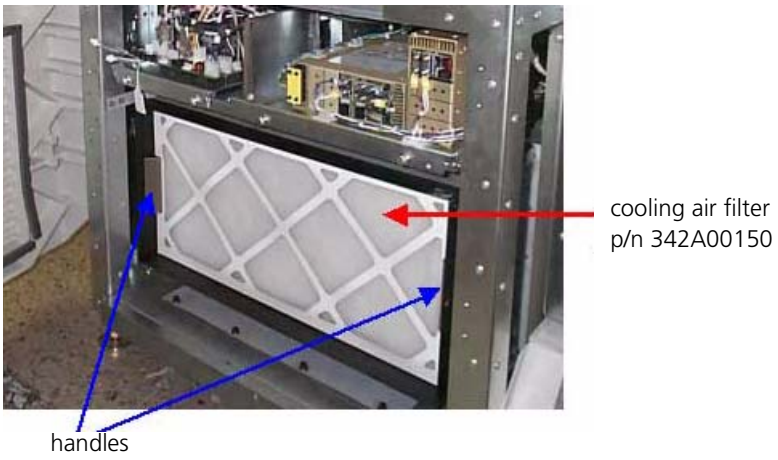
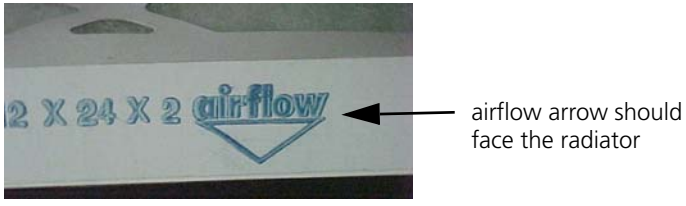


Figure 33: Frames with screws

3. Lift the right and left handles, half way up and then pull them out.
4. Replace the air filter unit and assemble the new unit so that the arrow marked on it faces the radiator side.



5. Assemble the handles and the air filter cover following steps 2 and 3 in reverse order.

Proof Loading Bar Vacuum Cups & Rollers

Important: This maintenance procedure is for machines with Spectrum option *only*. It should be performed daily.

- Use a cloth dampened in rubber rejuvenator to clean the proof loading bar vacuum cups and rollers.

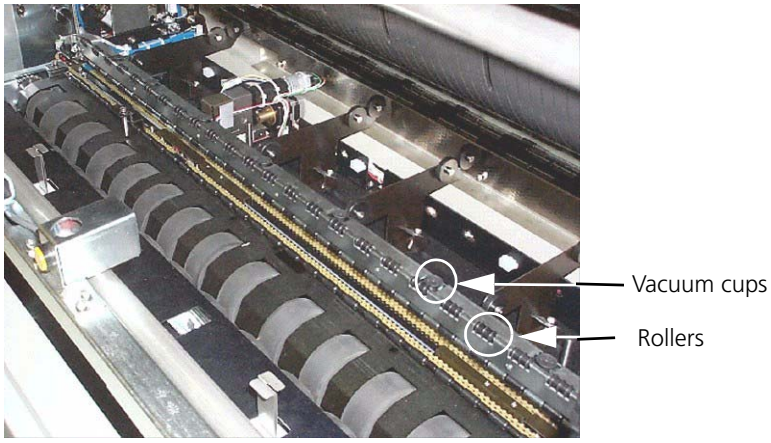


Figure 34: Proofing bar vaccum cups and rollers

Note: Alcohol will shorten the lifespan of the rubber of the disposal rollers.

Carrier Surface

Important: This maintenance procedure is for machines with Spectrum option *only*. It should be performed daily.

Before loading the carrier on the drum, you must make sure it is clean from dust and any other particles.

- Before placing the carrier on the proofing tray, use a cloth dampened in alcohol and clean both sides of the carrier.

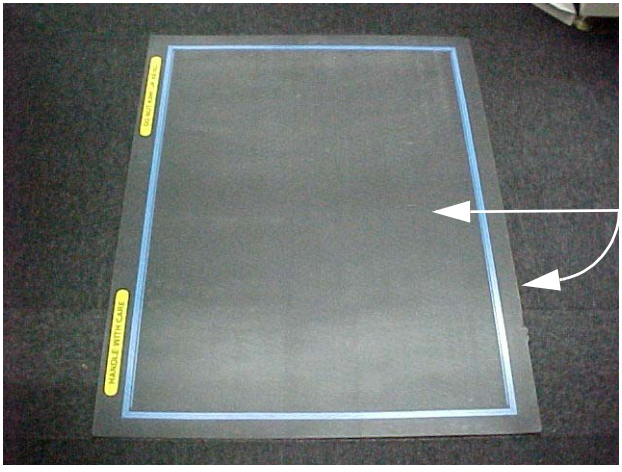


Figure 35: Carrier

After Completing Periodic Maintenance Procedures

When the above maintenance procedures are completed, do the following:

1. Close all the doors.
2. Turn on the machine. (For machines with an MCU, also turn on the MCU and switch to 24 volt).
3. Use the cheater found in the accessories kit. Place it on the cassette opening on the front panel.



Figure 36: Cheater placed on front panel

4. Make sure the machine is in the **Offline** mode.
5. On the Lotem Controller, click **Cassette Setup**. Then from the menu that opens, select **Release Cassette**.
6. Remove the cheater.
7. Insert the loading cassette and make sure that the machine is in the **Ready** mode.

Universal Debris Removal Cabinet (UDRC)



For the maintenance required to achieve optimum performance of the UDRC and to decrease the number of service calls you make, see the *Universal Debris Removal Cabinet Operator Guide*.