Section 1: Introduction

Table of Contents

Special Tools Required

Important

Use qualified personnel to service the PROCESSOR.

The following tools are required:

Part or Tool No.	Description
---	PORTABLE COMPUTER*
5B6275	DOWNLOAD DISKETTE
5B6278	DIAGNOSTICS DISKETTE
1C8022	SEALANT
TL-1434	12-INCH BENCH LEVEL
TL-1926	POWER WARNING
TL-2170	CLAMPS
TL-2192	HEATSINK COMPOUND
TL-2324	NLGI - GREASE NO. 2
TL-3346	GROUNDING KIT
TL-4391	INTERFACE CABLE
TL-4430	EXTRACTION TOOL
TL-4460	BRUSH

Note

*The following relates to the PORTABLE COMPUTER:

- An IBM compatible PORTABLE COMPUTER with MS-DOS version 3.0 or higher installed on the HARD DISK and with a 720 KB $3^1/_2$-in. DISK DRIVE.
- A serial communication port configured as COM1: Refer to the Operator's Manual for the PORTABLE COMPUTER.

Warning

Dangerous Voltage. Before you replace electrical components, move the main wall CIRCUIT BREAKER to "OFF". Lock the main wall CIRCUIT BREAKER and attach POWER WARNING TL-1926 to warn customers not to energize the PROCESSOR while you perform service.

Electrostatic Discharge

Overview

ESD — electrostatic discharge — is a primary source of:

- product downtime
- lost productivity
- costly repairs

While one cannot feel a static charge of less than 3,500 volts, as few as 30 volts can damage or destroy essential components in electronic equipment.

Preventive Measures

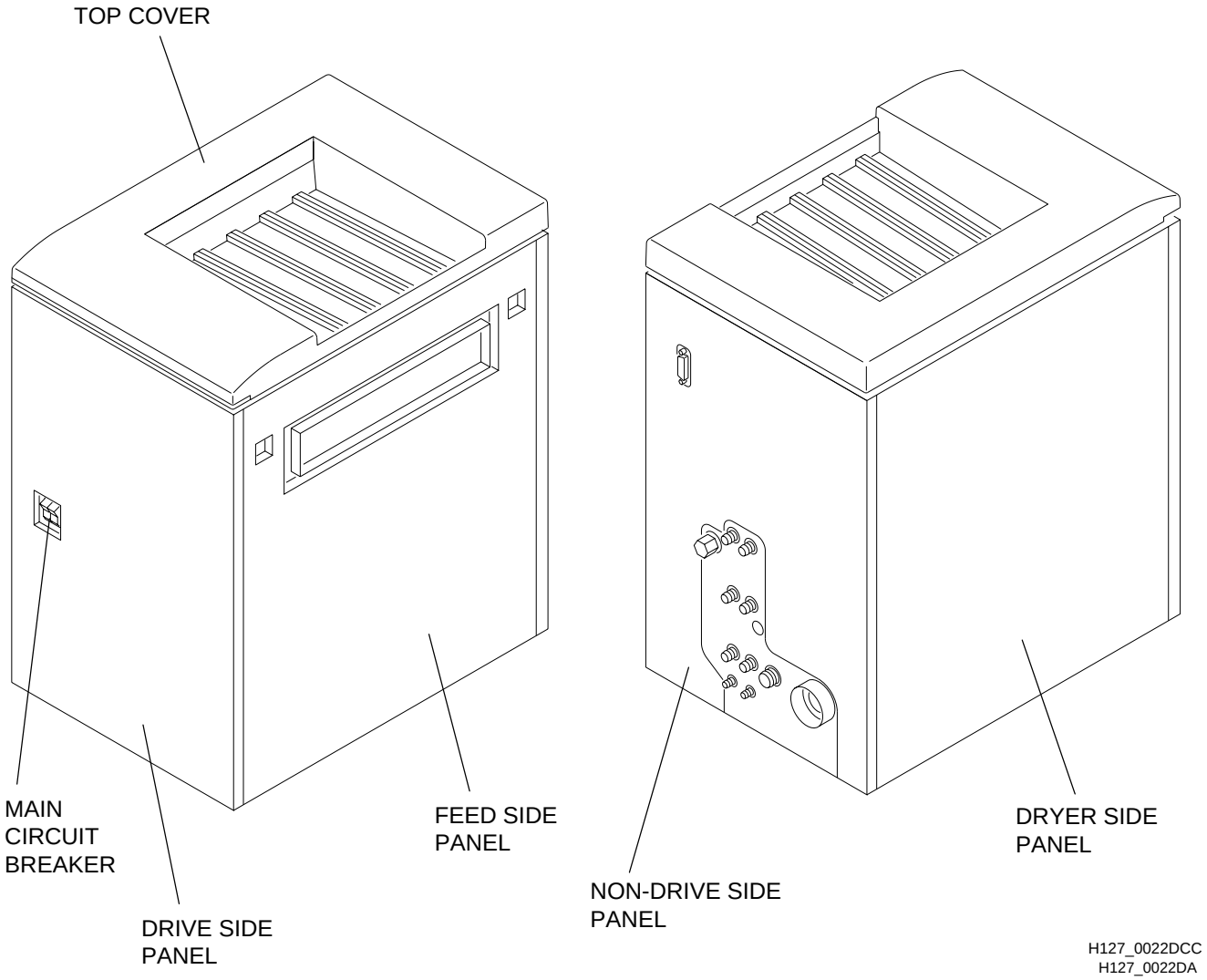
- Always look for an ESD warning label before doing any procedure involving static-sensitive components such as CIRCUIT BOARDS. All static-sensitive components are marked with bright graphic labels, which frequently include instructions. Follow all label instructions.
- Wear a grounding strap when handling static-sensitive components. Always make certain that the clip remains attached to a properly grounded, unpainted, clean surface.
- Repair static-sensitive components at an ESD-protected work station or use a portable grounding mat. For help in setting up an ESD-protected work station, contact your Kodak representative.
- When moving static-sensitive components from one area to another, insert and transport the components in ESD-protective packaging. Transparent antistatic bags are available from a variety of manufacturers and will help shield components from ESD damage.

Overview of the PROCESSOR

Before Starting the Service Procedures

Before you do most of the service procedures, you must de-energize the PROCESSOR and remove the TOP COVER and PANELS. For some service procedures, you must detach the *Kodak Ektascan* 2180 LASER PRINTER from the PROCESSOR. See Page 1–5.

Figure 1–1 **Identifying the PANELS and COVERS on the PROCESSOR**



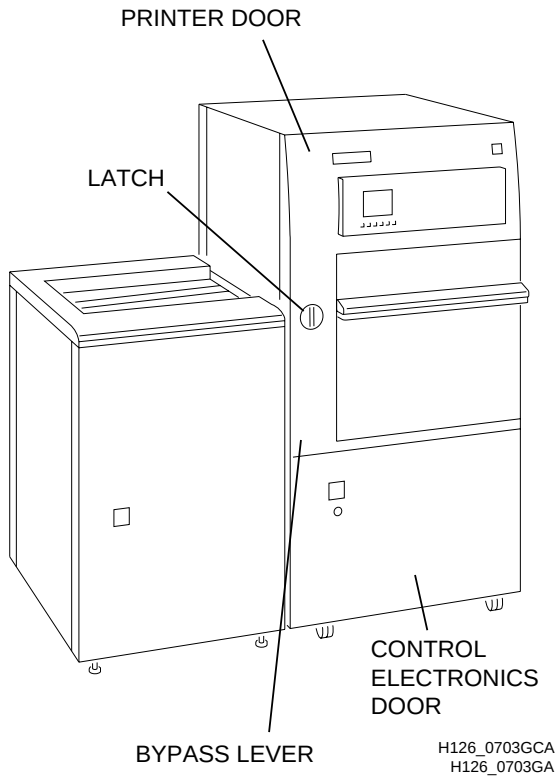
De-energizing and Energizing the PROCESSOR

To **de-energize** the PROCESSOR, move the CIRCUIT BREAKER CB1 on the PROCESSOR to the “O” position and the main wall CIRCUIT BREAKER to “OFF”.

To **energize** the PROCESSOR, move the main wall CIRCUIT BREAKER to “ON” and the CIRCUIT BREAKER CB1 on the PROCESSOR to the “|” position.

Detaching the LASER PRINTER from the PROCESSOR

Figure 1–2 **LASER PRINTER and PROCESSOR**



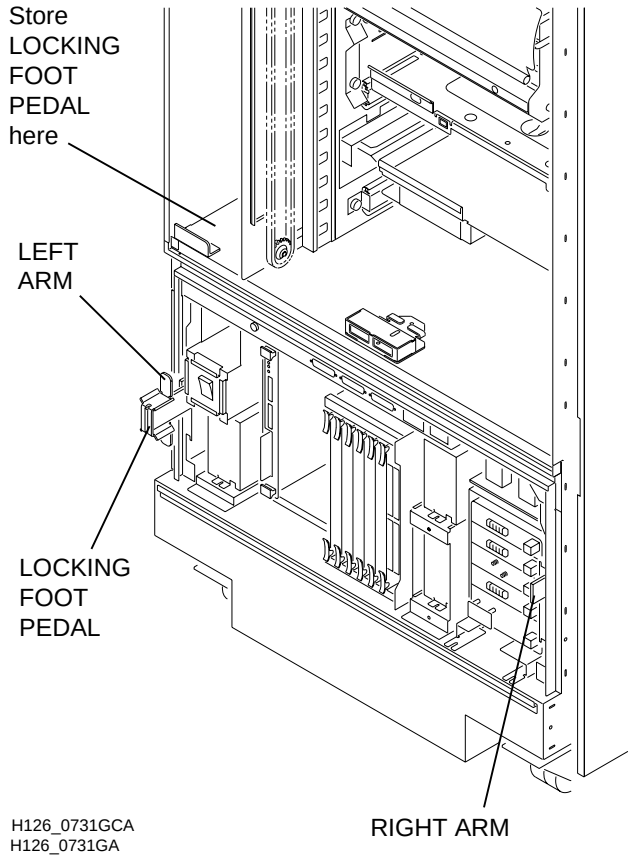
Warning
Dangerous Voltage

[1] De-energize the LASER PRINTER and the PROCESSOR.

[2] Open the CONTROL ELECTRONICS DOOR using a 3/8 in. *Allen* wrench.

[3] Press the BYPASS LEVER and rotate the LATCH to open the PRINTER DOOR.

Figure 1–3 **Disengaging the LASER PRINTER LOCKING FEET**



[4] Disengage the LASER PRINTER LOCKING FEET.

(a) Insert the LOCKING FOOT PEDAL into the LEFT ARM.

Warning
Do not use your hand to press the LOCKING FOOT PEDAL down. Use your foot.

(b) Press the LOCKING FOOT PEDAL down and to the right to release the ARM.

(c) Press the LOCKING FOOT PEDAL up and to the left to lock the ARM into position.

(d) Insert the LOCKING FOOT PEDAL into the RIGHT ARM.

(e) Press the LOCKING FOOT PEDAL down and to the left to release the ARM.

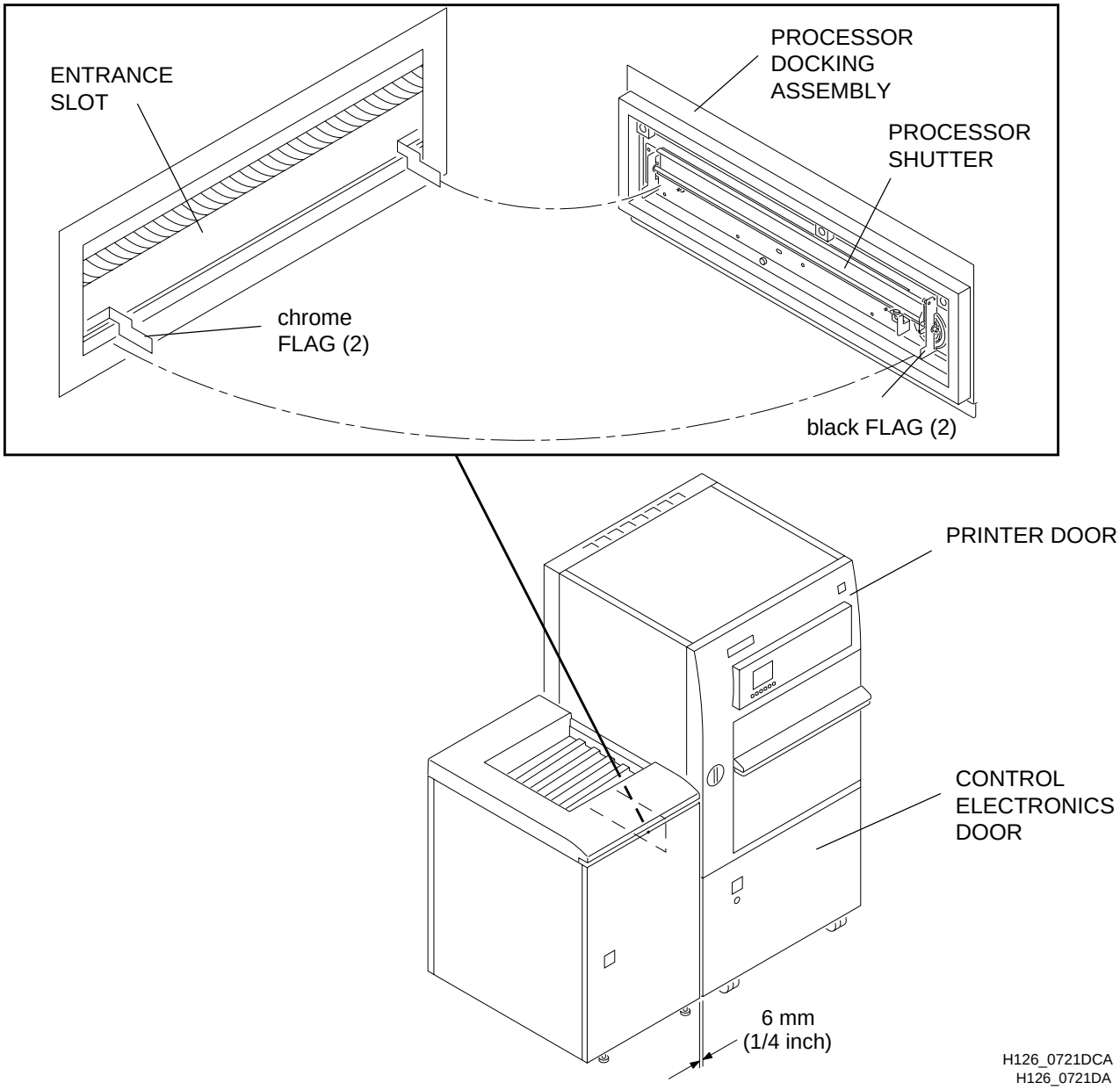
(f) Press the LOCKING FOOT PEDAL up and to the right to lock the ARM into position.

Caution
Check that the cables connected from the PROCESSOR to the LASER PRINTER are not pulled when moving the LASER PRINTER.

[5] Move the LASER PRINTER for access to the PROCESSOR during service.

Attaching the LASER PRINTER to the PROCESSOR

Figure 1–4 **Moving the LASER PRINTER into Position**



[1] Move the LASER PRINTER into position, next to the PROCESSOR.

(a) Move the LASER PRINTER to 6 mm (1/4 in.) from the PROCESSOR.

(b) Check that the front of the LASER PRINTER is flush with the front of the PROCESSOR.

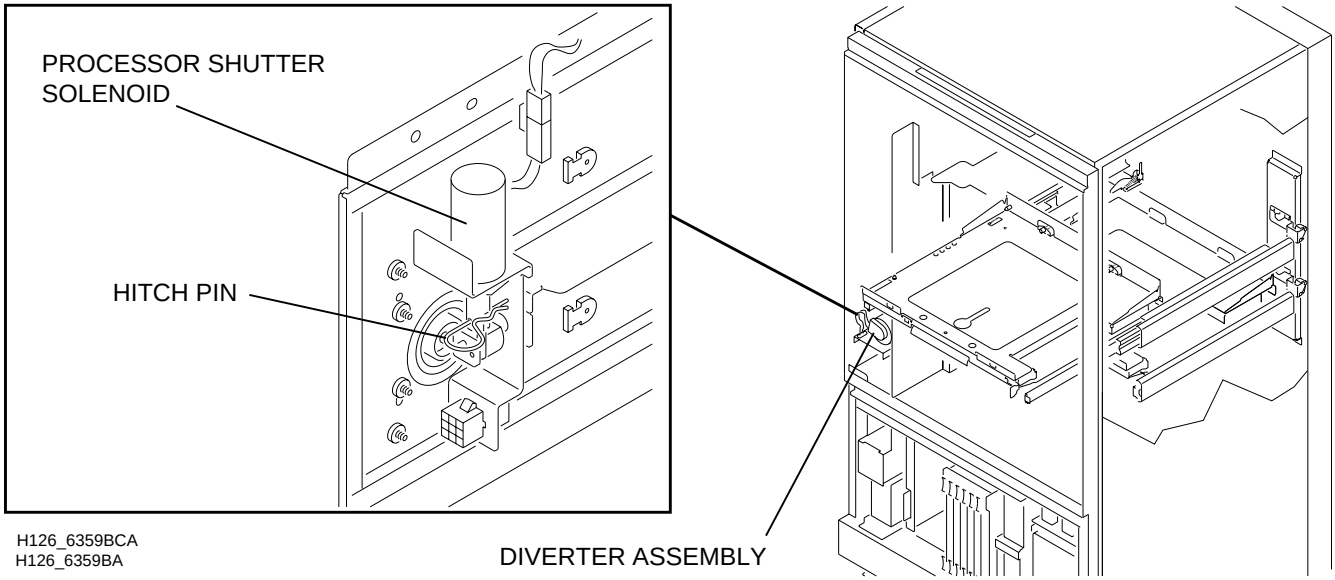
Important

Both chrome FLAGS on the PROCESSOR must be inside the 2 black FLAGS on the LASER PRINTER.

[2] Check for correct alignment of the FLAGS.

(a) Look between the PROCESSOR and the LASER PRINTER. Use a FLASHLIGHT.

Figure 1–5 **Checking for Correct Operation of the PROCESSOR SHUTTER**



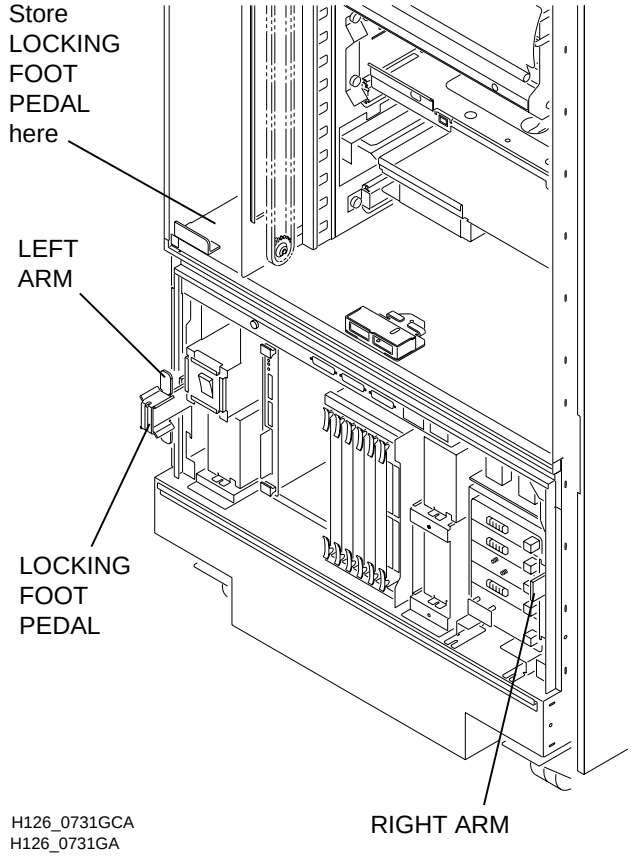
Important

The PROCESSOR SHUTTER must open and close freely.

[3] Check for correct operation of the PROCESSOR SHUTTER.

(a) Open and close the PROCESSOR SHUTTER by lifting the HITCH PIN on the PROCESSOR SHUTTER SOLENOID located above the front end of the DIVERTER ASSEMBLY.

Figure 1–6 **Engaging the LASER PRINTER LOCKING FEET**



[4] Engage the 2 LOCKING FEET.

(a) Insert the LOCKING FOOT PEDAL into the LEFT ARM.

Warning

Do not use your hand to press the LOCKING FOOT PEDAL down. Use your foot.

(b) Press the LOCKING FOOT PEDAL up and to the right to release the ARM.

(c) Press the LOCKING FOOT PEDAL down and to the left until the ARM engages in the locked position.

(d) Insert the LOCKING FOOT PEDAL into the right ARM.

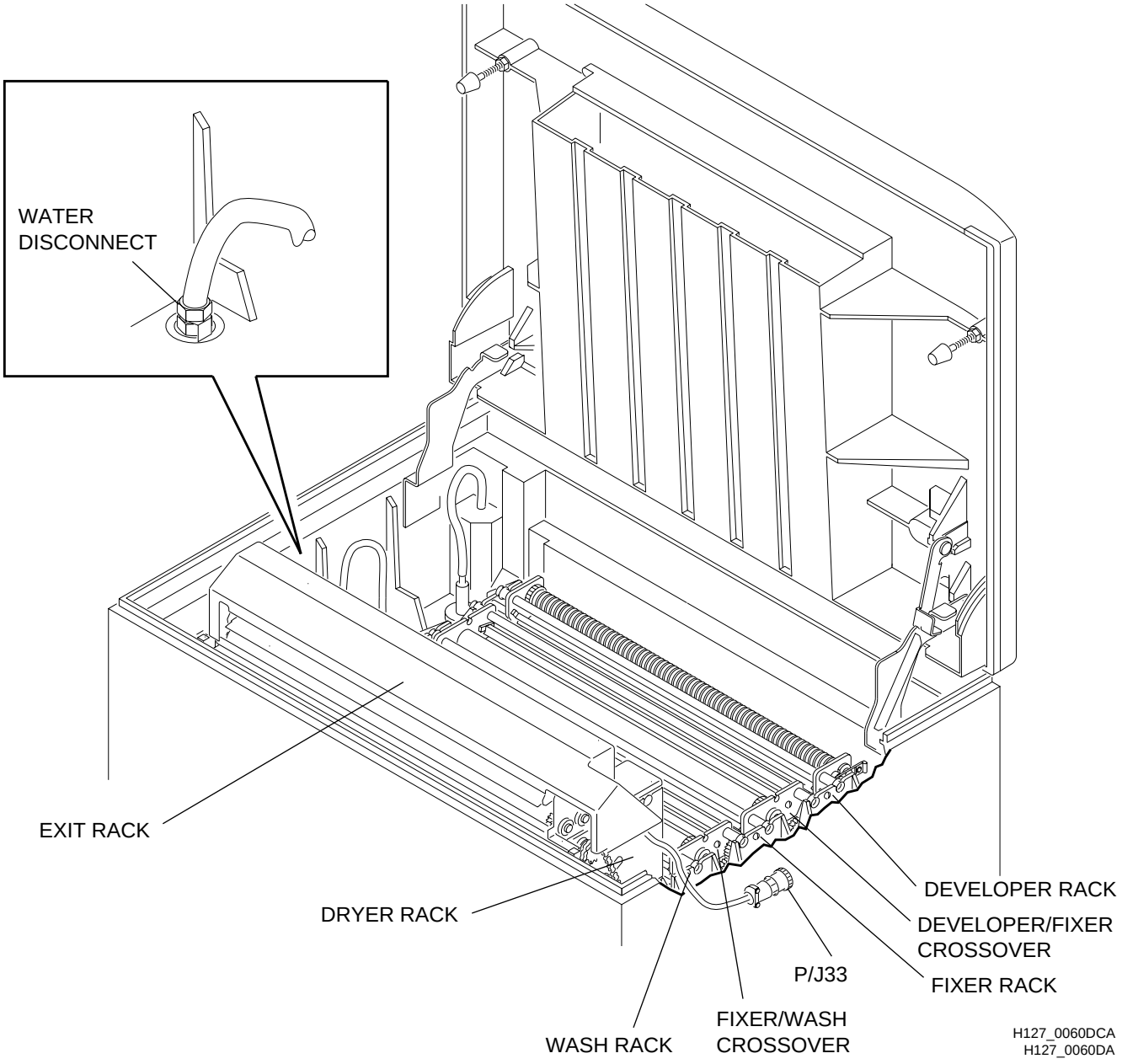
(e) Use the LOCKING FOOT PEDAL to move the RIGHT ARM to the locked position.

(f) Remove the LOCKING FOOT PEDAL and store below the DIVERTER ASSEMBLY

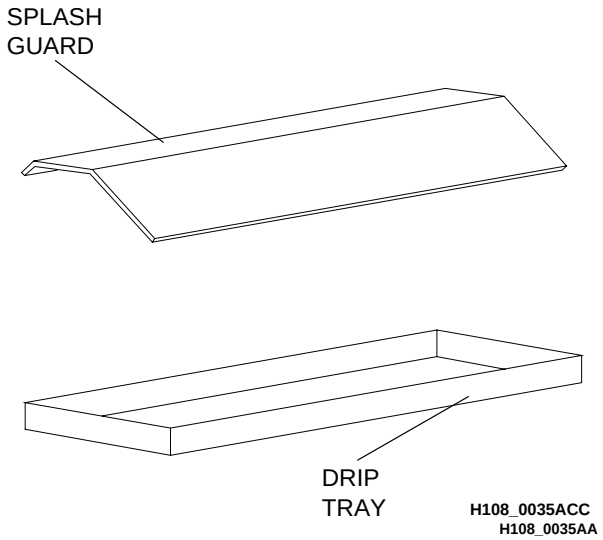
[5] Close the PRINTER DOOR and the CONTROL ELECTRONICS DOOR of the LASER PRINTER.

[6] To check for correct operation of the LASER PRINTER and the PROCESSOR, do the Procedure for “Printing Test Films”, that starts on Page 1–13.

Identifying the RACKS and CROSSOVERS



Removing the RACKS with Solutions in the TANKS



Note

To install the RACKS, see Page 1–10.

[1] De-energize the PROCESSOR. See Page 1–4.

[2] Lift the TOP COVER.

[3] Remove:

- WET SECTION COVER
- EVAPORATION COVERS
- YOKE, see Figure 1–7 on Page 1–10.
- FIXER/WASH CROSSOVER
- DEVELOPER/FIXER CROSSOVER
- DETECTOR CROSSOVER

Caution

Do not allow fixer to contaminate the developer solution.

- Use DRIP TRAYS.
- If removing both the FIXER RACK and the DEVELOPER RACK, remove the DEVELOPER RACK first.
- When removing the FIXER RACK, place the SPLASH GUARD between the developer and fixer TANKS. Lift the FIXER RACK slowly and drain it before moving it to the work station.

[4] To remove the DEVELOPER RACK:

(a) Lift the DEVELOPER RACK slowly out of the PROCESSOR. Tilt the DEVELOPER RACK to drain the developer into the developer TANK.

(b) Hold a DRIP TRAY under the DEVELOPER RACK.

[5] To remove the FIXER RACK:

(a) Place the SPLASH GUARD between the developer and fixer TANKS.

(b) Lift the FIXER RACK slowly out of the PROCESSOR. Tilt the FIXER RACK to drain the fixer into the fixer TANK.

(c) Hold a DRIP TRAY under the FIXER RACK.

[6] To remove the WASH RACK:

(a) Disconnect the WATER DISCONNECT from the non-drive side of the WASH RACK. See the figure on Page 1–11.

(b) Lift the WASH RACK from the WASH TANK.

Caution

Do not lift the EXIT RACK straight up, or the LOCKING TABS may cause damage. See the figure on Page 1–10.

[7] To remove the EXIT RACK:

(a) Disconnect CONNECTOR P/J33.

(b) Rotate the EXIT RACK away from the LOCKING TABS.

(c) Slowly and carefully lift the EXIT RACK from the PROCESSOR.

[8] To remove the DRYER RACK:

(a) Remove the EXIT RACK. See Step 7.

(b) Lift the DRYER RACK straight up from the PROCESSOR.

Installing the RACKS

Caution

To prevent contamination of the developer when installing the DEVELOPER RACK and the FIXER RACK:

- Use the SPLASH GUARD.
- Install the FIXER RACK first.

[1] Place the SPLASH GUARD between the developer and fixer TANKS.

[2] **Slowly** install the FIXER RACK in the fixer TANK.

[3] Remove the SPLASH GUARD.

[4] Slowly install the DEVELOPER RACK.

[5] Install:

- WASH RACK
- DETECTOR CROSSOVER
- FIXER/WASH CROSSOVER
- DEVELOPER/FIXER CROSSOVER
- DRYER RACK
- EXIT RACK

Important

The 4 LOCKING TABS must engage.

[6] Check that the LOCKING TABS on the EXIT RACK engage the LOCKING TABS on the DRYER RACK. See the figure below.

[7] Check that the RACKS and the CROSSOVERS are seated correctly.

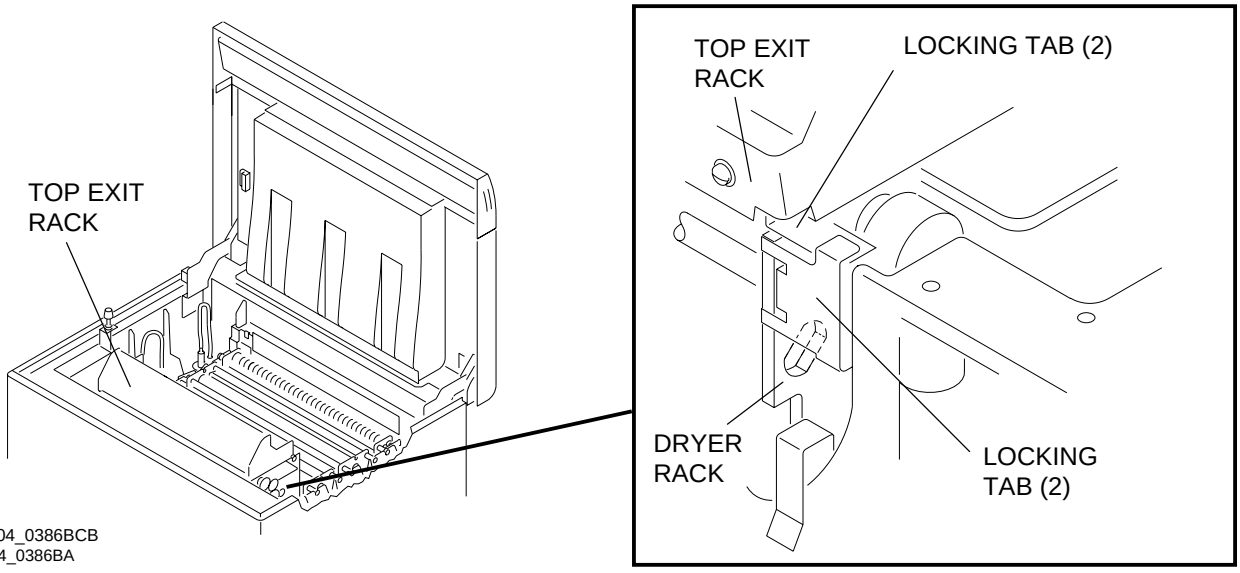
[8] Install:

- YOKE
- EVAPORATION COVERS
- WET SECTION COVER

[9] Connect the WATER DISCONNECT

[10] Close the TOP COVER.

Figure 1–7 **Engaging the LOCKING TABS on the EXIT RACK and the DRYER RACK**



H104_0386BCB
H104_0386BA

*** Leveling the PROCESSOR — See the Installation Instructions 1C7836**

Draining and Filling the TANKS

Draining the TANKS

Warning

- DRAINS must be made of chemically resistant, non-corrosive material. Use PVC or the equivalent.
- The DRAIN must have a minimum diameter of 7.6 cm (3 in.) and be free of obstruction.
- DRAIN service must comply with all local codes.

[1] De-energize the PROCESSOR. See Page 1–4.

Note

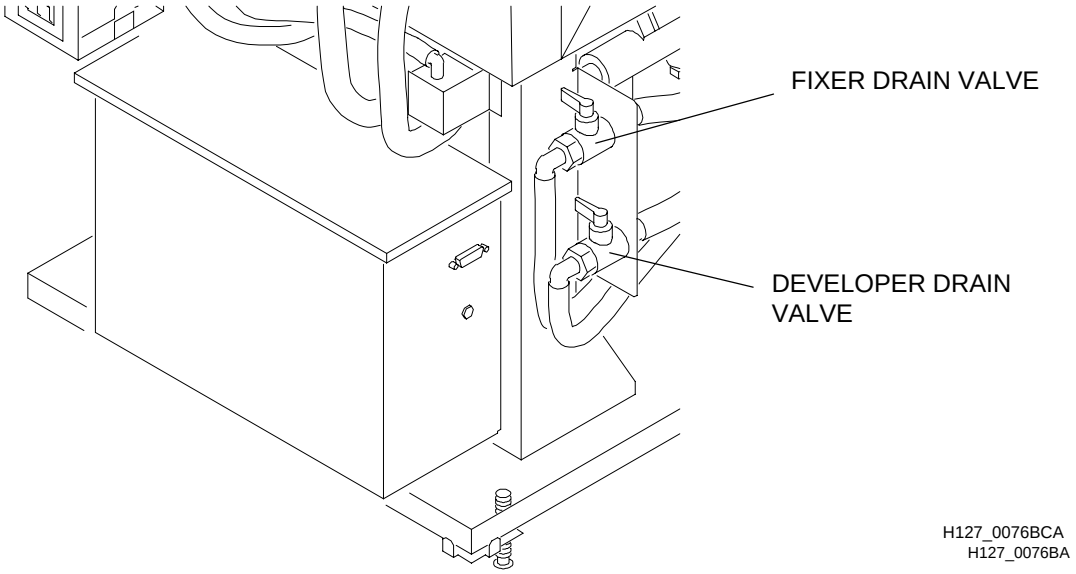
When you de-energize the PROCESSOR, the REPLENISHMENT PUMPS de-energize and the flow of developer and fixer from the REPLENISHMENT TANKS stops.

[2] Remove the DRIVE SIDE PANEL.

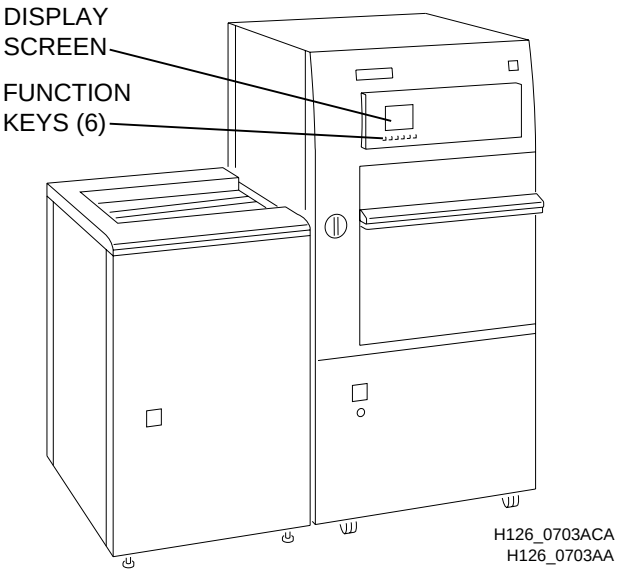
[3] Open:

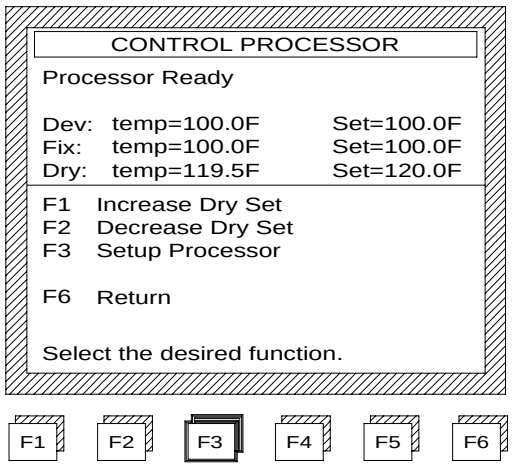
- FIXER DRAIN VALVE
- DEVELOPER DRAIN VALVE

Figure 1–8 **Draining the Processing TANKS**



Filling the TANKS





H126_9049AC

Note

See Figure 1–8 on Page 1–11 to locate the DRAIN VALVES.

[1] To fill the processing TANKS, close:

- FIXER DRAIN VALVE
- DEVELOPER DRAIN VALVE
- TOP COVER

[2] Install the DRIVE SIDE PANEL.

[3] Energize the PROCESSOR.

[4] From the Other Functions screen on the DISPLAY SCREEN on the CONTROL PANEL of the LASER PRINTER, press FUNCTION KEY F4 for the CONTROL PROCESSOR screen.

[5] At the CONTROL PROCESSOR menu, press FUNCTION KEY F3 to select “Setup Processor”.

[6] Enter the 4-digit access code, **4213** .

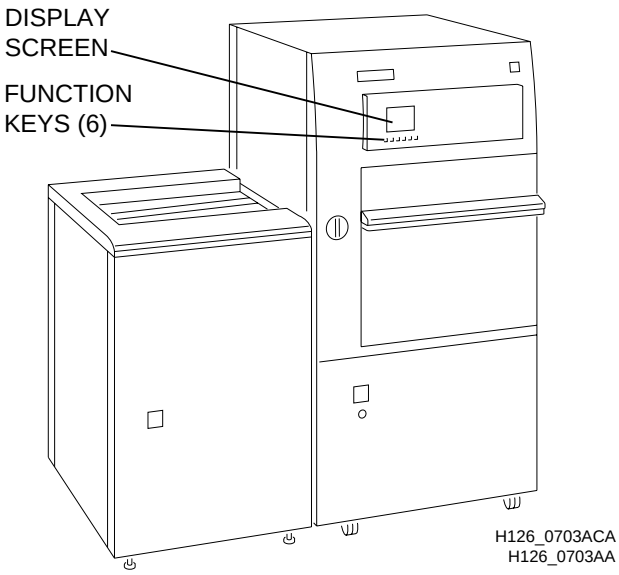
[7] At the Processor Setup screen, press FUNCTION KEY F2 for “Change Replen Mode”.

[8] At the Processor Replenishment Mode screen, press FUNCTION KEY F3 to fill the TANKS.

Note

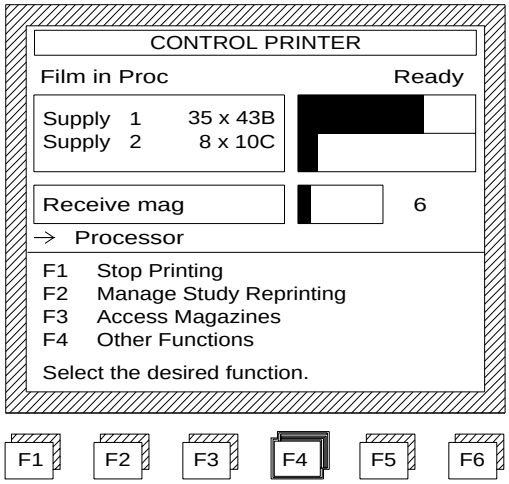
See the User’s Manual, Publication Part No. 4B5475, for more details on draining and filling the processing TANKS.

Printing Test Films

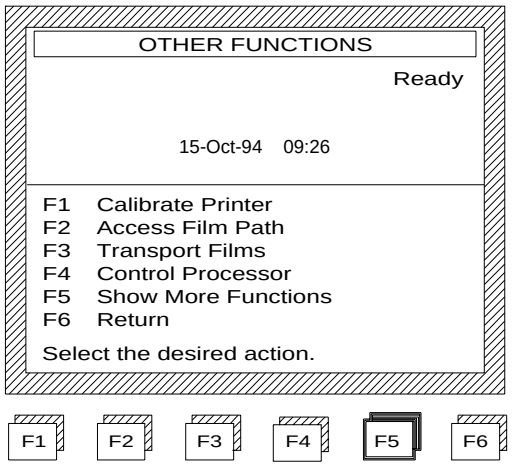


[1] Energize the LASER PRINTER and the PROCESSOR.

[2] The “CONTROL PRINTER” screen will display after the LASER PRINTER completes the start-up cycle.

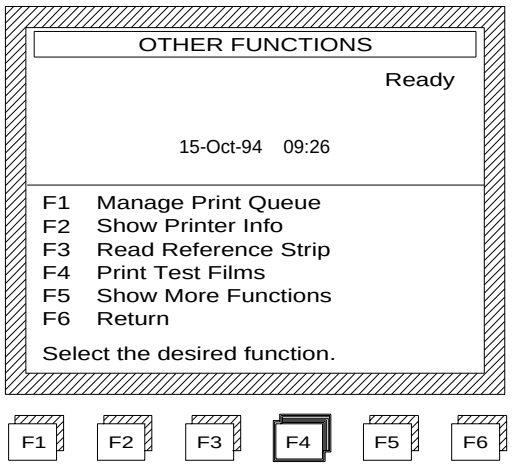


[3] Press FUNCTION KEY F4 to select “Other Functions”.



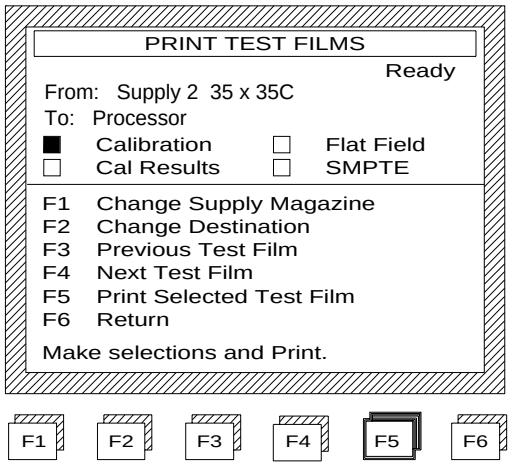
H126_9133AC

[4] Press FUNCTION KEY F5 to select “Show More Functions”.



H126_9134AC

[5] Press FUNCTION KEY F4 to select “Print Test Films”.



H126_9135AC

[6] Press FUNCTION KEY F4 twice to select the “Flat Field” option.

[7] Press FUNCTION KEY F5 to print a test film and send it to the PROCESSOR.