

Section 14

Fluorescent Lighting

This section provides procedures for the removal and installation of fluorescent lighting assemblies. These machines have fluorescent lighting in three areas: the belly door, the reel window of the machine door and the top box.

Information in this section includes:

- **Section 14.1, Belly Door Lighting** – provides instructions for the removal and installation of lighting components in the belly door.
- **Section 14.2, Reel Lighting** – provides instructions for the removal and installation of lighting components that illuminate the reel window in the machine door.
- **Section 14.3, Top Box Lighting** – provides instructions for the removal and installation of lighting components in the top box.



14

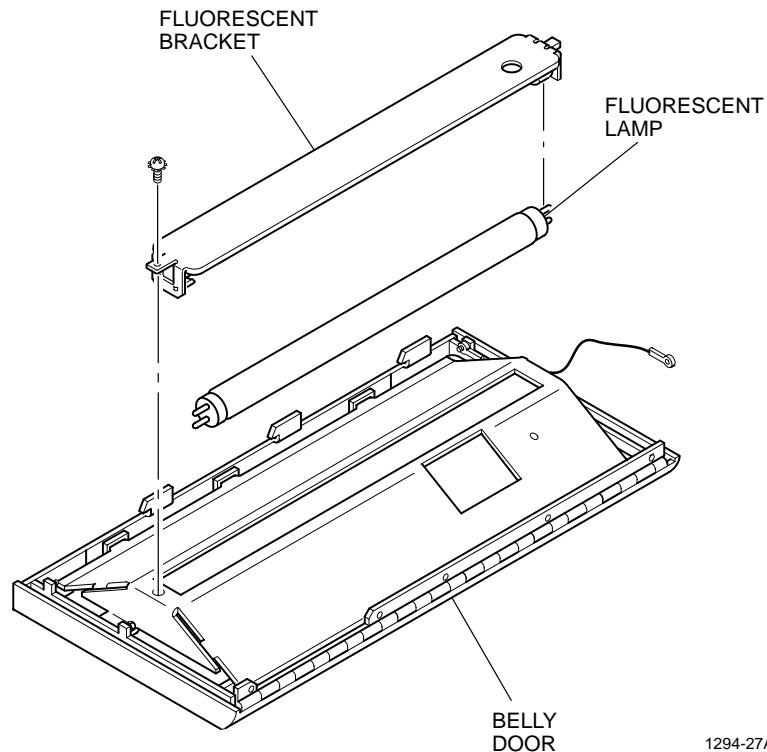
Fluorescent
Lighting

14.1 Belly Door Lighting

The belly door fluorescent assembly is attached to the inside of the belly door.

Removal

1. Open the machine door; turn **power off**.
2. Unlock the belly door and open it by pulling the latch pin on the side of the belly door and flipping the belly door down.
3. Disconnect the harness from the fluorescent assembly to the ballast.
4. Remove the screw from the tab at the right end of the fluorescent bracket and pull the bracket, which holds the fluorescent lamp, from the machine.
5. Remove the lamp by grasping it at both ends and rotating it to release it from the sockets.



1294-27A

Figure 14-1. Belly Door Fluorescent Removal.

Installation

1. Install the lamp in the sockets by placing one leg on each end of the fluorescent lamp into the socket grooves and rotating the lamp until it moves into place.
2. Place the fluorescent bracket into the deflector, and secure it in position with the screw in the tab at the right end of the bracket.
3. Connect the harness from the fluorescent assembly to the ballast.
4. Close and lock the belly door.
5. Turn the **power on**; close and lock the machine door.
6. See that the light illuminates correctly with no flickering.



14

Fluorescent
Lighting

14.2 Reel Lighting

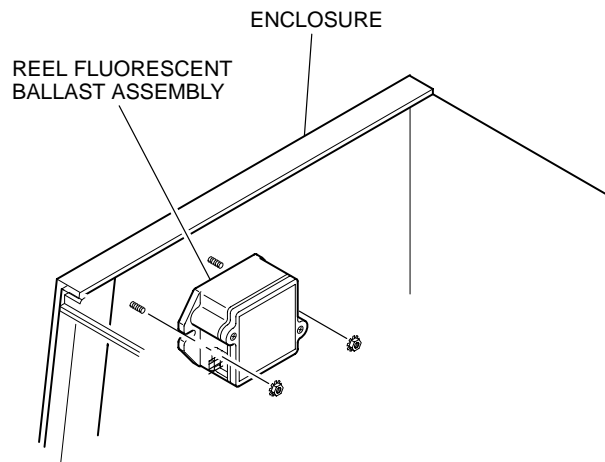
The reel fluorescent lighting assembly illuminates the front of the stepper reels. It is attached to the fluorescent mounting bracket, which also holds the top of the reel glass in place. The reel fluorescent lamp should be illuminated whenever the machine power is on.

Removal

1. Open the machine door; turn **power off**.
2. Disconnect the harness from the fluorescent ballast.
3. To remove the fluorescent lamp, grasp it at both ends and rotate it to release it from the sockets.
4. To remove the fluorescent mounting bracket, remove the three nuts that fasten the bracket to the door. This step is illustrated in Section 15, Machine Glass.
5. To remove the reel fluorescent ballast, remove the left reel for access. Refer to Section 12, Stepper Reel Assemblies.
6. Remove the two nuts that fasten the ballast to the left cabinet wall near the door hinge. See Figure 14-2.



14

Fluorescent
Lighting

1294-46A

Figure 14-2. Reel Fluorescent Ballast Assembly Removal.

Installation

1. To install the reel fluorescent ballast assembly, place the ballast over the studs on the left cabinet wall near the door hinge, and secure with the two nuts. See Figure 14-2.
2. Replace the reel assembly that was removed for access.
3. To install the fluorescent mounting bracket, position the bracket over the appropriate mounting studs on the door, and secure with the three nuts. This step is illustrated in Section 15, Machine Glass.
4. To install a lamp, place one leg on each end of the fluorescent lamp into the socket grooves and rotate the lamp to install it in the sockets.
5. Connect the harness to the ballast.
6. Turn **power on**; close and lock the machine door.
7. See that the light illuminates correctly with no flickering.



14

Fluorescent
Lighting

14.3 Top Box Lighting

The Vision Slot has two fluorescent assemblies located in the top box, a large unit similar to the S-Pus and a small unit mounted next to the LCD.

14.3.1 Large Top Box Fluorescent

To remove and install the large fluorescent assembly in the top box, see Figure 14-3 and proceed as follows.

Removal

1. Open the machine door; turn **power off**.
2. Remove the top box glass. Refer to Section 15, Machine Glass.
3. Remove the fluorescent lamp by grasping it at both ends and rotating it to release it from the sockets.
4. If the fluorescent mounting bracket must be removed:
 - a. Disconnect the fluorescent harness.
 - b. Hold the bracket in place and remove three nuts that mount the bracket to the back wall of the top box.



14

Fluorescent
Lighting

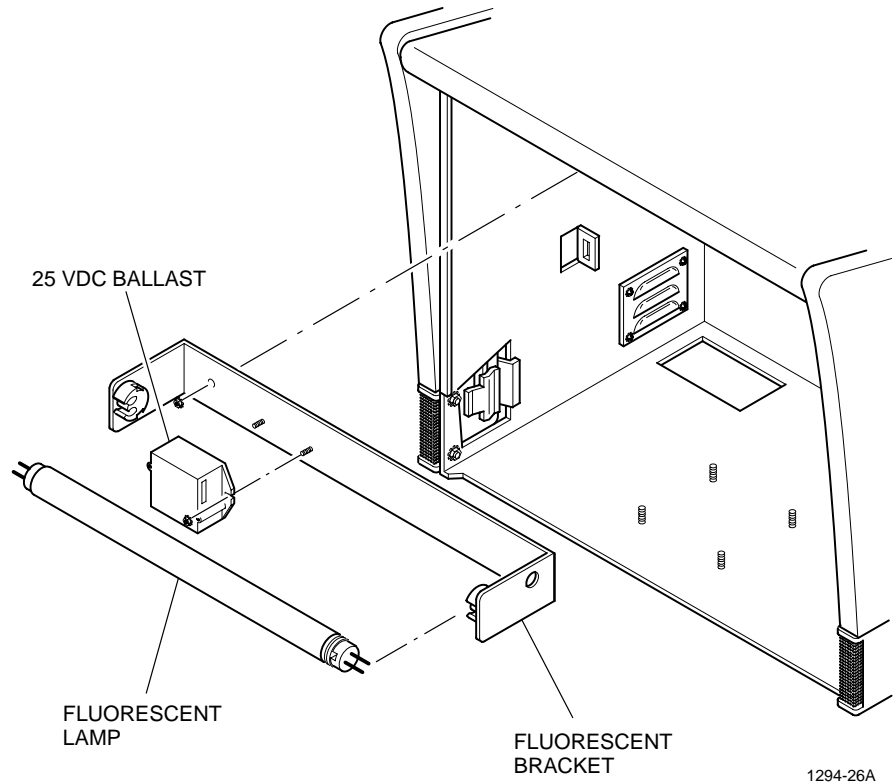


Figure 14-3. Large Top Box Fluorescent Removal.

Installation

1. If the fluorescent mounting bracket was removed, position it over the three mounting posts on the back wall of the top box.
2. Fasten the mounting bracket to the back wall with three nuts.
3. Reconnect the fluorescent harness.
4. To install a lamp, place one leg on each end of the fluorescent lamp into the socket grooves and rotate the lamp to install it in the sockets.
5. Install the top box glass.
6. Turn the **power on**; close and lock the machine door.
7. See that the light illuminates correctly with no flickering.



14

Fluorescent
Lighting

14.3.2 Small Top Box Fluorescent

To remove and install the small fluorescent assembly in the top box, see Figure 14-4 and proceed as follows.

Removal

1. Open the machine door; turn **power off**.
2. Remove the top box glass.
3. Remove the fluorescent lamp by grasping it at both ends and rotating it to release it from the sockets.
4. Release the latch pin for the LCD and rotate it to the right.
5. Release the latch pin that holds the small fluorescent bracket to the LCD bracket.
6. Disconnect the fluorescent harness and lift the small fluorescent assembly out of the top box.

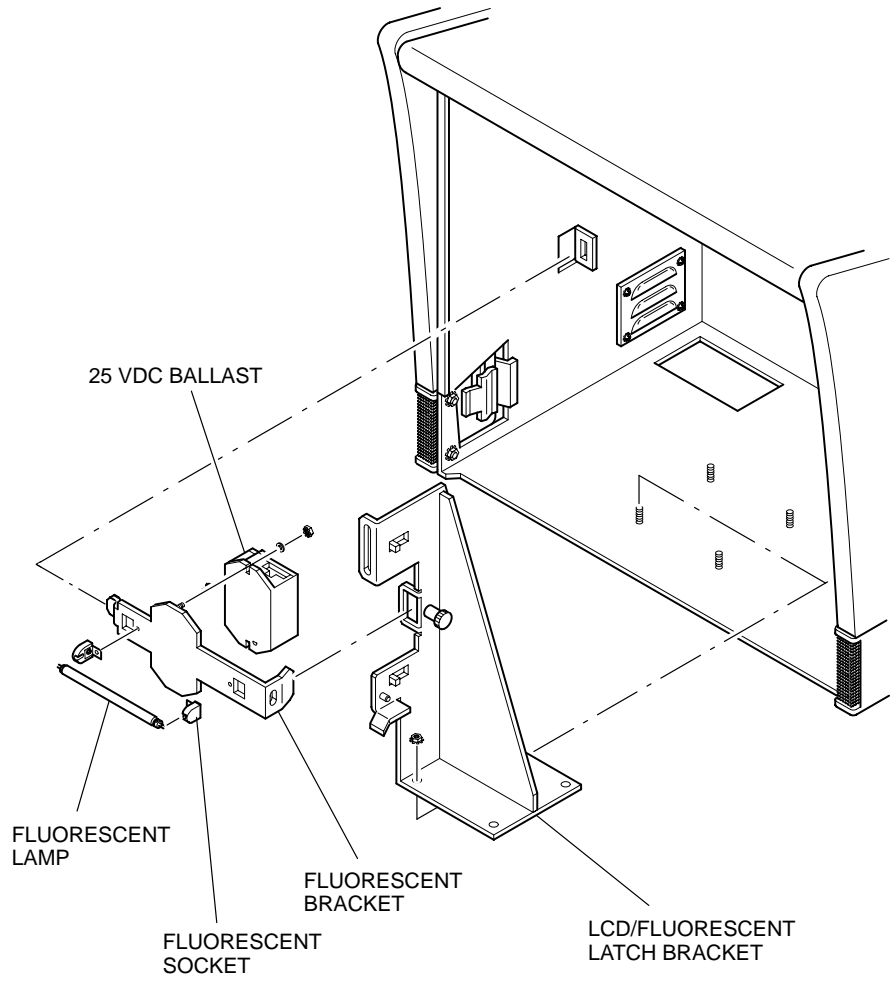
Installation

1. Insert the tab on the fluorescent mounting bracket into position in the bracket on the side wall of the top box.
2. Latch the mounting bracket into position in the LCD bracket.
3. Reconnect the fluorescent harness.
4. To install a lamp, place one leg on each end of the fluorescent lamp into the socket grooves and rotate the lamp to install it in the sockets.
5. Rotate the LCD back into position until the latch pin engages the LCD housing.
6. Install the top box glass.
7. Turn the **power on**; close and lock the machine door.
8. See that the light illuminates correctly with no flickering.



14

Fluorescent
Lighting



1294-25A

Figure 14-4. Small Top Box Fluorescent Removal.



14

Fluorescent
Lighting

