Adjusting the Cutter Module Position and Timing Link

**Caution:**

Unless indicated otherwise, turn the printer Off (O) and disconnect the printer from the power source before performing the following maintenance.

1. Refer to RRP No. 1 Turn the printer Off (O), remove the AC power cord and data cables.
2. Refer to RRP No. 2 and remove the electronics cover.

**Caution:**

The printer electronics are susceptible to static discharge. Before proceeding, it is highly recommended the technician wear an antistatic wrist strap connected to the printer chassis.

**Caution:**

This installation must be performed by a qualified service technician.

**Caution:**

Wear protective eyewear when removing E-rings, C-clips, snap rings, and springs. All of these are under tension and could fly off while being removed.
RRP No. 1: Prepare Printer for Maintenance

Remove Power and Disconnect Printer

**Caution:** Unless indicated otherwise, turn the printer Off (O) and disconnect the printer from the power source before performing the following maintenance.

Refer to Figure 4-5.

1. Turn the printer Off (O).
2. Remove the AC power cord.
3. **Parallel Data Cable:** Remove wire retainers from the parallel data cable connector. Pull the data cable connector away from the parallel data port connector.
4. **Serial Data Cable:** Loosen the screws securing serial data cable connector and pull it away from the serial data port connector.
5. **USB Data Cable:** Pull the USB connector away from the USB connector.

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**Figure 4-5. Power Cord Removal and Installation**
RRP No. 2: Remove and Install the Electronics Cover

Caution:

Unless indicated otherwise, turn the printer Off (O) and disconnect the printer from the power source before performing the following maintenance.

Caution:

This installation must be performed by a qualified service technician.

Refer to Figure 4-7. Remove the two screws located near the bottom. Lift the electronics cover at the rear top corner as shown and pull the corner forward and up. Lift the cover up and away from the printer.

To install the cover, lower the cover so the lip goes into the channel on the top of the printer and reinstall the screws.

Figure 4-7. Remove and Install the Electronics Cover
Note: Assure the Cutter Module Rotary Blade has been cycled to the normal resting position and completed a cutting cycle. (Note: In Cutter mode the cutter will cycle if powered on and completes self test. This can be done without media or ribbon installed) Once you have assured the cutting cycle is completed follow RRP No.1 and No.2 in preparation for maintenance.

Tools:

#1 Phillips Screw Driver
5/32” Allen Wrench “L” Type
7/64” Allen Wrench
Flash Light
Large Flat Blade Screw Driver
The cutter performs the cutting function acting much like a scissors when rotated in a cycle which brings the Cutter Module Rotary Blade against a spring loaded anvil. Since there is a fixed rotation, the Rotary Blade must be positioned to enter the cutting area as the cutting cycle starts to assure the full width of the media will be cut. However, the blade cannot be in the media path when in the resting state since contact with the media entering the Cutter Module will cause a jam to occur.

Checking/Correcting the Cutter Module Mounting Position

Before retiming the upper arm the Cutter Module position should be checked. Any movement of the Cutter Module has an impact on the blade position since it is directly connect to the Main Link. (See Figure 4-32)
1. Loosen the left side Phillips screw that secures the static brush to the front of the cutter module. Now remove the right screw making sure you retain and remove the nut behind the bracket.
2. Swing the static brush up and out of the media path to allow viewing of the Cutter Module media path and Rotary Cutter Blade.
3. Open the printhead and using a flashlight, illuminate the top of the platen from the back of the Cutter Module.

4. Looking directly through the front of the cutter module (your eyes should be even with the media exit point) locate the top of the platen and determine if it is parallel to the bottom of the Cutter Module opening. (you should only see the very top edge of the platen roller when viewing directly through the media path)
5. If it is the same height across the opening proceed to the cutter timing procedure.
6. If adjustment is required use a 7/64” Allen Driver or wrench to loosen the four hex screws that secure the Cutter Module.

7. Move and adjust the cutter module while observing the relationship to the top of the platen as described in step 4.

8. Securely tighten the four screws and check operation before performing the timing link adjustment since the module adjustment may have corrected the problem.

9. If the cutter is functioning acceptably re-secure the static brush. If the issue persists then proceed to the timing link adjustment.
Cutter Adjustment Procedure Rev 2

Retiming the Upper Drive Arm

If the media hits either cutter blade or if the cutter does not cut through the label material completely, the upper drive arm alignment must be checked.

Note • The upper drive arm is part of the cutter mechanical assembly and has been aligned at the factory. If the position is altered, the following procedure may be used to realign the upper drive arm. The printer must be programmed to operate in Cutter Mode prior to performing the following procedure.

1. Perform the Cutter Module mounting position check per the previous procedure.
2. Remove the printer electronics cover observing the cautions described in RRP No. 2
3. Locate the Upper Drive Arm (connected to the Cutter Module Rotary Blade shaft)
4. Using a 5/32” Allen wrench, loosen the single hex screw.
5. You should now be able to push and move the Cutter Module Rotary Cutter Blade by pushing the front edge up with a screw driver tip.
6. Looking directly into the front of the Cutter Module (eyes level with the media path opening) you will now see the Rotary Blade blocking the media path on the left side. While looking directly into the media path gently pry the front of the Rotary Blade down until you observe the media path opens fully across the width of the module. Stop moving the Rotary Cutter Blade immediately when the left side is fully open.

7. Securely tighten the Cutter Module hex screw on the Upper Drive Arm and test for proper functionality.
8. If proper function is observed, reattach the Electronics Cover and re-secure the Static Brush.