EUROTHERM CHESSELL

Software upgrade instructions
Model 4103

INTRODUCTION

These instructions are intended as an aid to those required to carry out a software upgrade on a Model 4103 recorder.

Caution

The process involves the handling of components which are sensitive to static electrical discharges of voltages as low as 60V. All relevant personnel must be aware of static handling procedures.

UPGRADE PROCEDURE

Open the door of the recorder, and remove the cassette and pens/printhead as described in the User Guide.

Isolate the recorder from line power.

As shown in figure 1, remove any option key which may be fitted, then unscrew the jacking bolt and carefully slide the chassis forwards, ensuring that the flexi cable at the rear of the writing system is not forcibly pulled out of its connector.

As shown in figure 2, release the flexi, by pulling the 'ears' at the ends of the connector downwards. The flexi may now be removed from the connector, and the writing system removed from the case and placed on a static-safe surface.
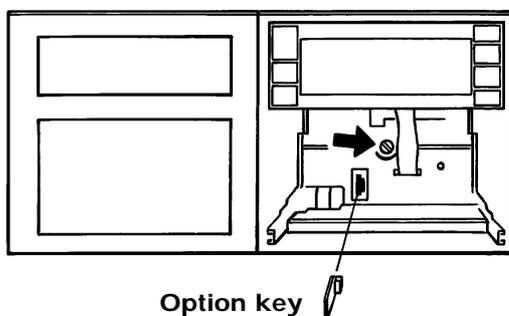

Option key

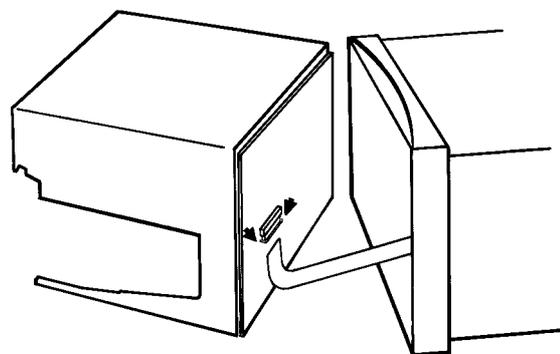Figure 1 Option key and jacking bolt locations

Figure 2 Flexi-cable removal

Remove the four plastic push rivets from the main writing system board, and put them carefully to one side for use in re-assembly.

As shown in figure 3, carefully (without pulling on the wires) release sufficient loom connectors from the board to allow it to lie flat on the static safe surface.
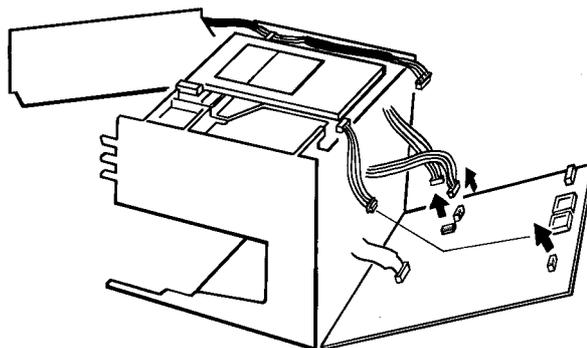

Figure 3 Disconnect looms

The two PROMS are identified by part numbers on their labels. The one labelled IC4 should be fitted in IC4 location; the one labelled IC6 should be fitted in IC6 location (Locations are printed on the board).

Noting the orientation of the ICs, replace the two PROMS, using a PLCC extractor tool to remove the existing ones, as shown in figure 4.

Re-assemble the recorder, taking care that none of the looms becomes trapped between the board and the writing system.

Ensure that the flexi cable is correctly inserted into its connector, and that the moving part of the connector is pushed fully home.

Fit the option key (if any) before fitting the cassette and pens/printhead.
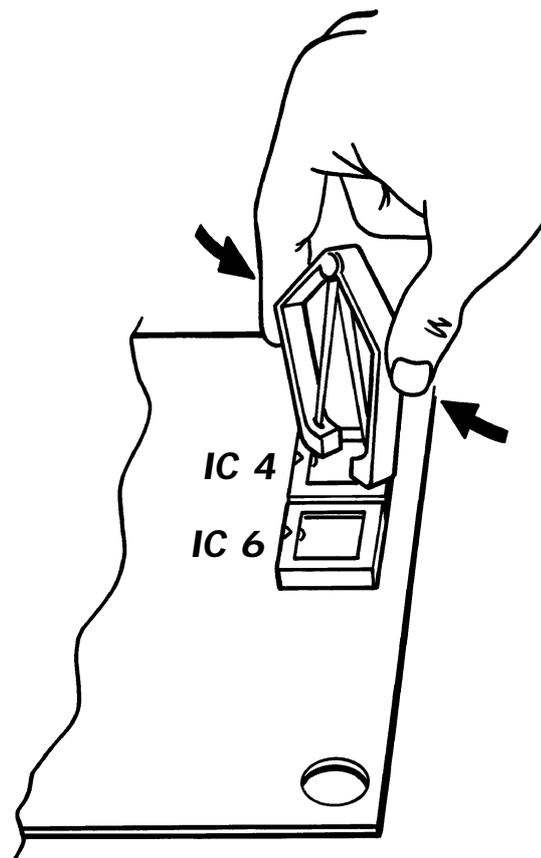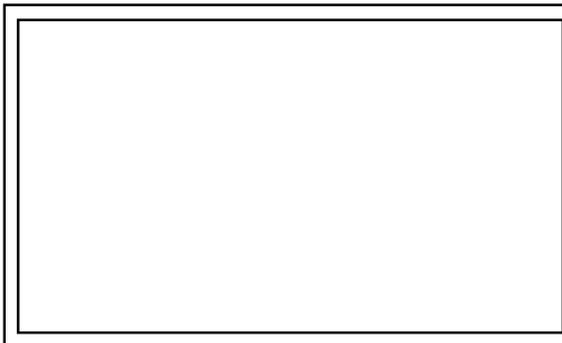

Figure 4 PROM location/removal