

- q Optional
- q Recommended
- q Mandatory

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Capstan Control D/A Converters

DATE: 06/11/92
MODEL: Micro Lynx System Unit
REVISION: All
SERIAL NO: 140 - 431
SOFTWARE: All

DESCRIPTION:

Timeline has processed a number of Micro Lynx repairs where the transport capstan control D/A has failed. The symptom of this failure is that a transport runs off speed in play and will not synchronize. The D/A manufacturer is not certain what causes the failure but it has been noted that all the failed IC's have come from a batch with the same date code. To prevent this from occurring a simple modification must be performed to **all** units with the serial numbers noted above. This modification will not affect performance in any manner.

The modification is to add a 1N4001 diode between the +12V and +5V supplies so that the +5V supply will track the +12V supply on power up.

REQUIRED TOOLS:

Static safe workstation	Phillips screwdriver
Grounding wrist strap	Soldering Iron

REQUIRED PARTS:

1N4001 Diode

PROCEDURE:

1. Turn off the System Unit and disconnect all cables from the rear panel. Place the System Unit on a static safe workstation. Ground yourself and the workstation anti-static mat.
2. Remove the six phillips screws securing the top cover of the System Unit and remove the top cover. See Figure 1.

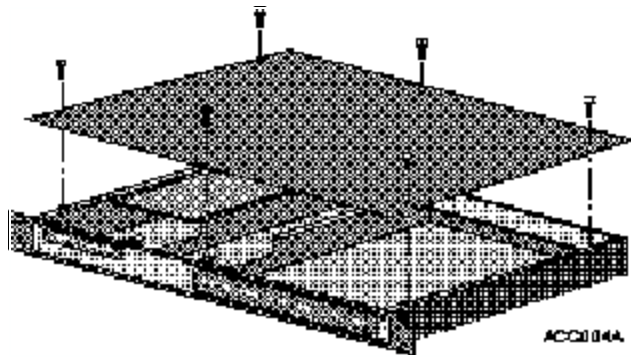


Figure 1. Remove the Top Cover

PROCEDURE continued:

3. Turn the System Unit so that the front panel faces you and locate the Power switch.
4. Solder a 1N4001 diode between the power switch terminals as shown in Figure 2. Be careful to correctly position the diode so that the white banded end of the diode is pointing towards the rear of the System Unit.

Warning

Although this is a very simple modification, incorrect installation of the diode could cause damage to the Micro Lynx.

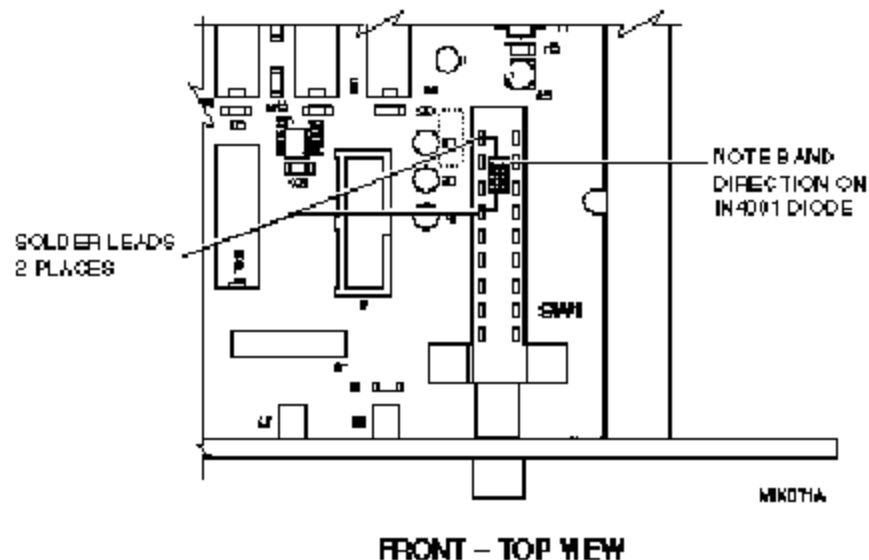


Figure 2. Power Switch Diode Position

5. Check that the diode is properly installed and soldered to the correct power switch terminals. Replace the System Unit cover. Insert and tighten the six phillips screws which secure the cover to the chassis.
6. Reconnect the power supply, turn on and check that the Micro Lynx System Unit correctly powers up.