

MPX 100 Update Installation Instructions

WARNING

THESE SERVICE INSTRUCTIONS ARE FOR USE BY QUALIFIED PERSONNEL ONLY. DO NOT PERFORM ANY SERVICING OTHER THAN THAT CONTAINED IN THESE INSTRUCTIONS UNLESS YOU ARE QUALIFIED TO DO SO. REFER TO SAFETY SUMMARY PRIOR TO PERFORMING ANY SERVICE.

SAFETY SUMMARY

The following general safety precautions must be observed during all phases of operation, service and repair of this instrument. Failure to comply with these precautions, or with specific warnings elsewhere in these instructions violates safety standards of design manufacture and intended use of the instrument. Lexicon assumes no liability for the customer's failure to comply with these requirements.

DO NOT OPERATE IN AN EXPLOSIVE ATMOSPHERE

Do not operate the instrument in the presence of flammable gases or fumes. Operation of any electrical instrument in such an environment constitutes a definite safety hazard.

KEEP AWAY FROM LIVE CIRCUITS

Operating personnel must not remove instrument covers. Component replacement and internal adjustments must be made by qualified maintenance personnel. Do not replace components with power cable connected. Under certain conditions, dangerous voltages may exist even with the power cable removed. To avoid injuries, always disconnect power and discharge circuits before touching them.

DO NOT SUBSTITUTE PARTS OR MODIFY INSTRUMENT

Because of the danger of introducing additional hazards, do not install substitute parts or perform any unauthorized modification to the instrument.

SAFETY SYMBOLS

General definitions of safety symbols used on equipment or in manuals.



Instruction manual symbol: the product will be marked with this symbol when it is necessary for the user to refer to the instruction manual in order to protect against damage to the instrument.

CAUTION

The CAUTION sign denotes a hazard. It calls attention to an operating procedure, practice, condition or the like which, if not correctly performed or adhered to, could result in damage to or destruction of part or all of the product.

NOTE:

The NOTE sign denotes important information. It calls attention to procedure, practice, condition or the like which is essential to highlight.



Electrostatic Discharge (ESD) Precautions

The following practices minimize possible damage to ICs resulting from electrostatic discharge or improper insertion.

- Keep parts in original containers until ready for use.
- Avoid having plastic, vinyl or styrofoam in the work area.
- Wear an anti-static wrist-strap.
- Discharge personal static before handling devices.
- Remove and insert boards with care.
- When removing boards, handle only by non-conductive surfaces and never touch open-edge connectors except at a static-free workstation.*
- Minimize handling of ICs.
- Handle each IC by its body.
- Do not slide ICs or boards over any surface.
- Insert ICs with the proper orientation, and watch for bent pins on ICs.
- Use anti-static containers for handling and transport.

*To make a plastic-laminated workbench anti-static, wash with a solution of liquid detergent, and allow to dry without rinsing.

MPX 100 ROM Upgrade

The update kit includes:

- 1 MPX 100 ROM (U10)
- 1 IC Extractor Tool (for ROM)
- 1 Update Installation Instructions (this document)

You will also need a TORX™ T-9 screwdriver, a small Phillips head screwdriver and an anti-static wriststrap.

Performing the ROM upgrade is an easy process, but to avoid problems, please follow these instructions carefully. Pay particular attention to the precautions listed in the safety summary and those which appear throughout these instructions. Any damage caused during installation is not covered under warranty.

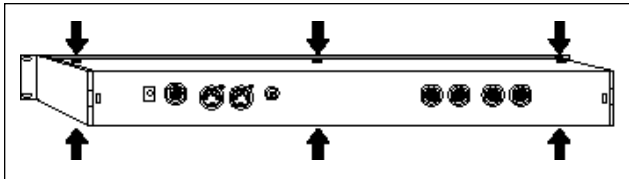
CAUTION

TURN OFF AND DISCONNECT ALL POWER TO THE MPX 100 PRIOR TO INSTALLING UPGRADE SOFTWARE.

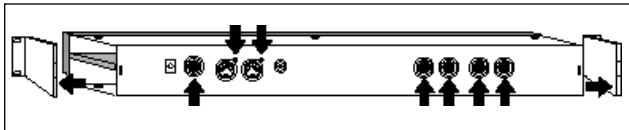
Open the MPX 100

Before opening the MPX 100, put on your anti-static wriststrap.

Using the TORX screwdriver, remove six (6) screws from the top and bottom of the unit .



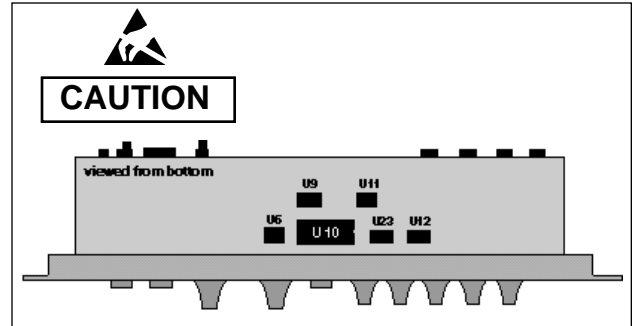
On the rear panel, remove the five (5) 1/4" black plastic nuts and the two (2) small Phillips head screws at the MIDI jacks.



Remove the rack ears, then carefully flex the housing to separate it from the unit and lift it off.

Install the IC

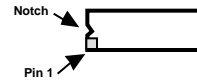
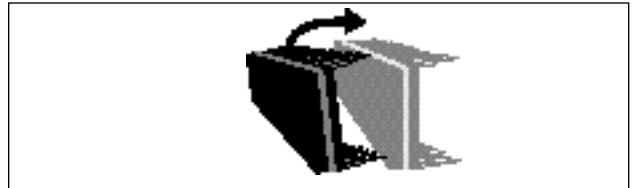
Referring to the illustration below, locate ROM (U10) on the underside of the printed circuit board and remove it using the ROM Extractor Tool.



Check the ROM provided with your upgrade kit. Because the manufacturing process leaves the pins angled out slightly from the body of the ROM, the pins must be straightened before insertion with the following procedure:

1. Place the ROM on its side on a static free surface.
2. Hold the body of the ROM and, exerting gentle pressure downward, roll it slightly to force the pins into position parallel to your work surface.

Be careful to align the IC correctly, and to avoid bending any pins. When the ROM is inserted, carefully inspect each pin to be sure that it has not been bent.



CAUTION

ICs inserted backwards will be destroyed. Incorrect insertion of ICs is also likely to cause damage to the board.

Replace Cover

Reposition the cover and replace the rear panel screws and nuts. Replace the rack ears and the screws on the top and bottom of the housing. Be careful not to overtighten the screws.

Continued

Reinitialize Unit

1. Press and hold down the front panel **Bypass** button while powering up the unit.
2. Continue to hold down **Bypass** for 10 seconds.
3. Release **Bypass** and turn the front panel VARIATION knob to **15**.
4. Press **Store**.

The MPX 100 will initiate its normal power cycle routine (which takes approximately 6 seconds). Once this routine is completed, the unit is ready to use with the new software.

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