Features of V 3.0 Software:

- DUAL MACHINE functionality — including several new audio configuration paths.
- Analog Mix and Digital Mix are now called Analog Level and Digital Level. Both have been moved to SETUP EDIT.
- Digital and Analog Input selection as well as selection of connector type have been moved to CONTROL mode.
- Soft knob patches are still connected via MOD EDIT. They are now, however, integrated into the SETUP structure. Pages 2 and 3 of SETUP SELECT (RUN) mode show knob patch assignments. Also — 2 MOD Patches can be made to Setup parameters (A LVL, or B MIX etc.) This is done from SETUP EDIT mode.
- An LFO has been added to SETUP EDIT mode. The LFO is treated as a standard patch source (in MOD EDIT mode), but is stored and adjusted in SETUP EDIT mode.
- A modified version of the 224XL Rich Plate Algorithm has been added to the ROM. Various Effect Presets derive their sound from this new algorithm.
- 6 new “Split” Effect Algorithms have been created:
  - Chamber
  - Dual Delays
  - Mono Pitch Shift
  - Compressor
  - PONS — a dithering program
  - Small Stereo Adjust
- Time code can now call Setup changes as well as Effect changes and parameter glides.
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.

GROUND THE INSTRUMENT
To minimize shock hazard the instrument chassis and cabinet must be connected to an electrical ground. The instrument is equipped with a three-conductor AC power cable. The power cable must either be plugged into an approved three-contact electrical outlet or used with a three-contact to two-contact adapter with the grounding wire (green) firmly connected to an electrical ground (safety ground) at the power outlet. The power jack and mating plug of the power cable meet International Electrotechnical Commission (IEC) safety standards.

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 SERVICE OR ADJUST ALONE
Do not attempt internal service or adjustment unless another person, capable of rendering first aid and resuscitation, is present.

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.

DANGEROUS PROCEDURE WARNINGS
Warnings, such as the example below, precede potentially dangerous procedures throughout this manual. Instructions contained in the warnings must be followed.

WARNING

Dangerous voltages, capable of causing death, are present in this instrument. Use extreme caution when handling, testing and adjusting.

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.

Indicates dangerous voltage. (Terminals fed from the interior by voltage exceeding 1000 volts must be so marked.)

The WARNING sign denotes a hazard. It calls attention to a procedure, practice, condition or the like which, if not correctly performed or adhered to, could result in injury or death to personnel.

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.

CAUTION

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.

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

*To make plastic laminated workbench anti-static, wash with a solution of Lux liquid detergent and allow to dry without rinsing.
Installing new software in the 300 is a straightforward process but, to avoid damage to yourself, or to your unit, please follow the instructions carefully, paying particular attention to the precautions noted.

The 300 V 3.0 Update kit includes:

<table>
<thead>
<tr>
<th>Qty</th>
<th>Part #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>350-09681</td>
<td>GAL (U24)</td>
</tr>
<tr>
<td>1</td>
<td>350-09680</td>
<td>Program ROM (U22)</td>
</tr>
<tr>
<td>1</td>
<td>350-09679</td>
<td>Program ROM (U23)</td>
</tr>
<tr>
<td>1</td>
<td></td>
<td>IC Extractor Tool</td>
</tr>
<tr>
<td>1</td>
<td>070-09678</td>
<td>300 V3.0 Owner's Manual</td>
</tr>
<tr>
<td>1</td>
<td>070-09683</td>
<td>300 V3.0 Quick Reference Guide</td>
</tr>
<tr>
<td>1</td>
<td>070-09677</td>
<td>300 V3.0 Software Installation Instructions</td>
</tr>
</tbody>
</table>

NOTE: Installing V3.0 software requires purging of the 300 memory. Make hard copies of any MIDI maps, effect registers, or setup registers that you want to save before installing V3.0 Software!

**WARNING**

Disconnect the 300 from the AC outlet before installing V3.0 software.

Remove the 300 cover.
1. Remove the three (3) screws that hold each rack ear.
2. Remove the three (3) remaining screws on each side of the unit, the single screw in the front of the top cover, and the single screw in the upper center of the rear panel.
3. Remove the cover by gently spreading the bottom of each of its sides and lifting.

**CAUTION**

Exercise ESD Precautions before proceeding

**Change ICs**

Once the 300 is opened, refer to the diagram to locate the ICs which are to be replaced. Remember to observe antistatic precautions before touching any ICs.

1. Locate the small GAL labeled U24. **Note its orientation, which is different from the other ICs around it.**

2. Using the IC Extractor Tool, remove U24 and replace it with the new version, making sure to install the new chip with the same orientation.
3. Replace Program ROM U22 with the new version.
4. Replace Program ROM U23 with the new version.
5. Check all three ICs to make sure that no pins are bent.

**CAUTION**

ICs inserted backwards will be destroyed. Incorrect insertion of ICs is also likely to cause damage to the board.
Verify 300 operation

1. Power up the unit and verify that the start up diagnostics are correct.
2. Press the front panel CNTRL button, then press PAGE UP twice to display the "Copy Tools" page.
3. Press the button directly over "DISABLE", then turn the Soft knob so that the display reads "ENABLE".
4. Press PAGE DOWN once to display the "Purge Tools" page.
5. Select "FACTORY", then press "STORE". This will reinitialize the unit.
   After 15 seconds the unit should return to SETUP SELECT (RUN) mode.
6. Once the unit is reinitialized, go to Control Mode again (press CNTRL), repeat steps 2 and 3.

This completes the software installation and check out procedure. Replace the top cover and refer to the revised Owner's Manual for information on V3.0 features and functionality.
Occasionally, when running setups which have the LFO patched to Setup Input Pan (such as GuitarXP), the system will "hang up" when you press the MACH button from Effect Edit mode or Mod Edit mode. If this happens, simply press the Effect Edit or the Mod Edit button (depending on which mode you were in). This should fix the display.

In the User Guide:
On Page 3-23: The third paragraph (describing selection of MIDI Channel) reads: "All bulk dump and SysEx messages except Program Change, follow the system channel..." This sentence should read: "All bulk dump and SysEx messages INCLUDING Program Change, follow the system channel..."

On Page 4-31, in the compression example description, # 5 reads: "Remember, as you adjust the threshold clockwise..." This should read: "Remember, as you adjust the threshold COUNTERCLOCKWISE..."

300 V3.0 Installation Instructions are still valid for installation of V3.5.