10. If you have a Rev.1 Host card, verify that blue jumpers W9, W11, W13 and W17 cover the left and middle pins on the jumper blocks. Also verify that 32k X 8 RAM (marked D43256) is installed at U38. (See figure below.)

![Diagram of the 480L Host Card — Rev.1](image)

11. Reinstall the Host card. Be extremely careful not to apply seating force to the card until the connectors are properly aligned.

12. Reconnect the nonvolatile memory cartridge cable.

13. Install the card retainer and close the front panel.

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**V 3.01 Software Update**

**Installation Instructions**

The Upgrade package includes:
- IC Extractor Tool
- IC U40 Host V 3.01
- IC U41 Host V 3.01
- IC U43 Host V3.01

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**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 manufacturers 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 IEC 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 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

Typical of the example below, precede potentially dangerous procedures throughout this manual. Instructions contained in the warnings must be followed.

WARNING

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.

NOTE:

- This update assumes that you are currently running Version 3.00 software.

1. Turn 480L Power OFF.
2. Open the hinged front panel. The panel will lock in the open position.
3. Remove the card retainer.
4. Disconnect the memory cartridge cable from the left front edge of the Host card.
5. Carefully remove the Host card from the 480L mainframe. Hold the ribbon cable out of the way while extracting the Host card. Do not allow any components to catch or be damaged by the connector or cable.
6. Place the Host card on a nonstatic, nonconducting surface.
7. Using the supplied IC Extractor Tool, remove the following ICs from the Host card:
   - U40, U41 and U43 (U42 does not change.)
   - See figure at right.
8. Install the new Host ROMs (V3.01) at U40, U41 and U43.

NOTE: This update assumes that you are currently running Version 3.00 software.

9. Check to make sure that all ICs are installed in the proper sockets. Make sure that all pins are correctly aligned and seated. If you have a Rev.3 or higher Host card, align the IC with the right side of the socket (as viewed in the figure above), leaving the first 4 pins empty.

WARNING

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