

# **Model 3000 / Access 4000 RAM & PIC / EPROM & MICRO Upgrade KIT Installation Instructions**

## **Your Upgrade Kit may include:**

- Upgrade KIT Installation Instructions (this document)
- RAM & PIC Chip Upgrade Kit, used in Memory Size upgrades or activating extra Features
- EPROM & MICRO Chip Upgrade Kit, used with Firmware upgrades or Language options

## **Tools Required**

- IC Extraction Tool (or small screw driver)
- PLCC Extraction Tool (DO NOT USE SCREW DRIVER)

## **POWER WARNING:**

**Disconnect the AC power supply AND Battery from the panel before replacing components to avoid any damage to the components or panel.**

## **CAUTION:**

**This installation must be performed by qualified personnel.**

**RAM, PIC, EPROM and MICRO chips are sensitive to static electricity, avoid touching the pins of these devices. Always take precautions to reduce the chances of electrostatic discharge (ESD) harming the components.**

**Touching a nearby grounded metal surface before touching a component drains static electricity, reducing the likelihood of ESD damage.**

## Programming Information

### Note:

Care must be taken to ensure that any existing programming is preserved and is not lost when the RAM (or PIC, EPROM, MICRO) upgrade chip is replaced. Requires a PC with Upload/Download software installed.

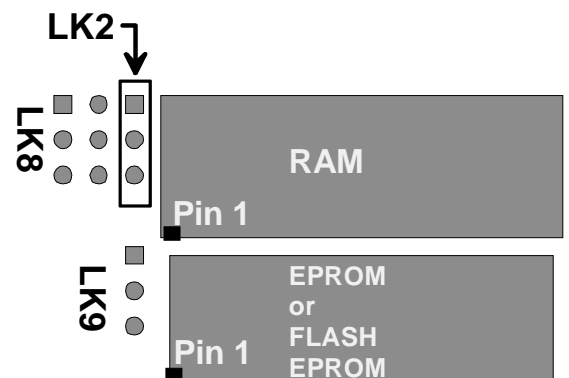
The Programmer's Reference section of the Programming Manual, provides details of procedures for upgrading and/or reconfiguring the memory. This information can be found under "Memory Defaulting" [<MENU>, 7, 5, 2]. If a MICRO or EPROM is changed, information regarding firmware versions and country codes can be found under "System Information" [<MENU> 2 ], and in the Basic Programming section of the Programming Manual.

**REMEMBER** Links LK2, LK8 and LK9 must be set in the correct position.

### RAM Chip Upgrade, U10

**Note:** a 32K RAM CHIP is placed into the socket offset by two pins

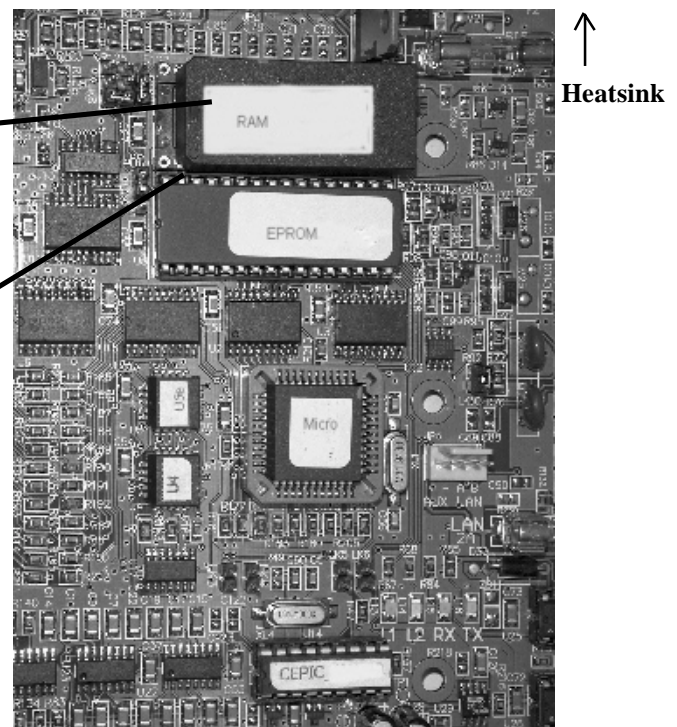
Carefully remove the IC with help of an IC puller or a very small screw driver. Make sure the chip is inserted into the socket with correct orientation.



U10 RAM Chip  
NOTE a 32K RAM CHIP is placed into the socket offset by two pins

PIN 1

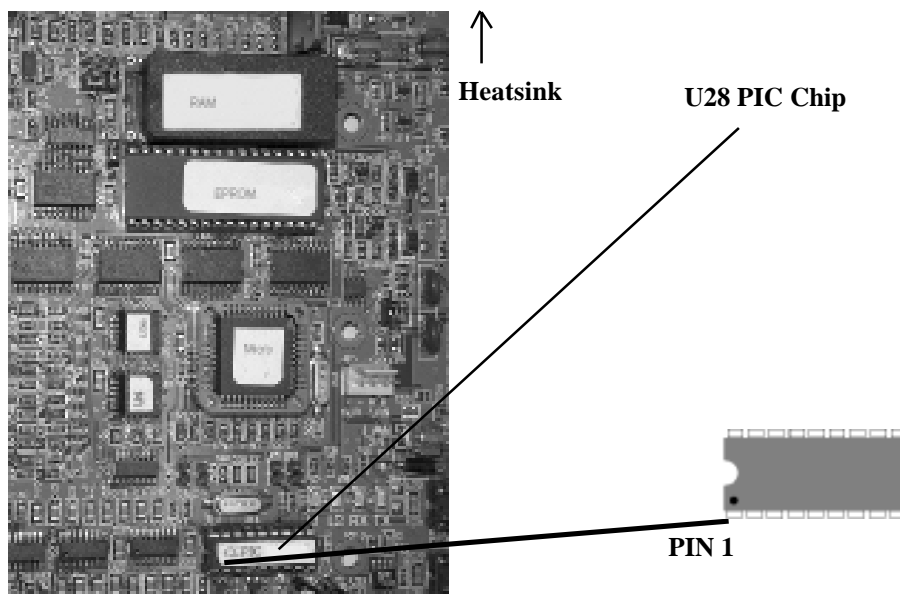
RAM Type	LK2 Settings
32 Pin (128K & 512K)	<div style="display: flex; align-items: center;"> <div style="width: 10px; height: 10px; background-color: gray; border: 1px solid black; margin-right: 5px;"></div> 1         </div> <div style="display: flex; align-items: center;"> <div style="width: 10px; height: 10px; background-color: gray; border: 1px solid black; margin-right: 5px;"></div> 2         </div> <div style="display: flex; align-items: center;"> <div style="width: 10px; height: 10px; background-color: gray; border: 1px solid black; margin-right: 5px;"></div> 3         </div>
28 Pin (32K)	<div style="display: flex; align-items: center;"> <div style="width: 10px; height: 10px; background-color: gray; border: 1px solid black; margin-right: 5px;"></div> 1         </div> <div style="display: flex; align-items: center;"> <div style="width: 10px; height: 10px; background-color: gray; border: 1px solid black; margin-right: 5px;"></div> 2         </div> <div style="display: flex; align-items: center;"> <div style="width: 10px; height: 10px; background-color: gray; border: 1px solid black; margin-right: 5px;"></div> 3         </div>



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## PIC Chip Upgrade, U28

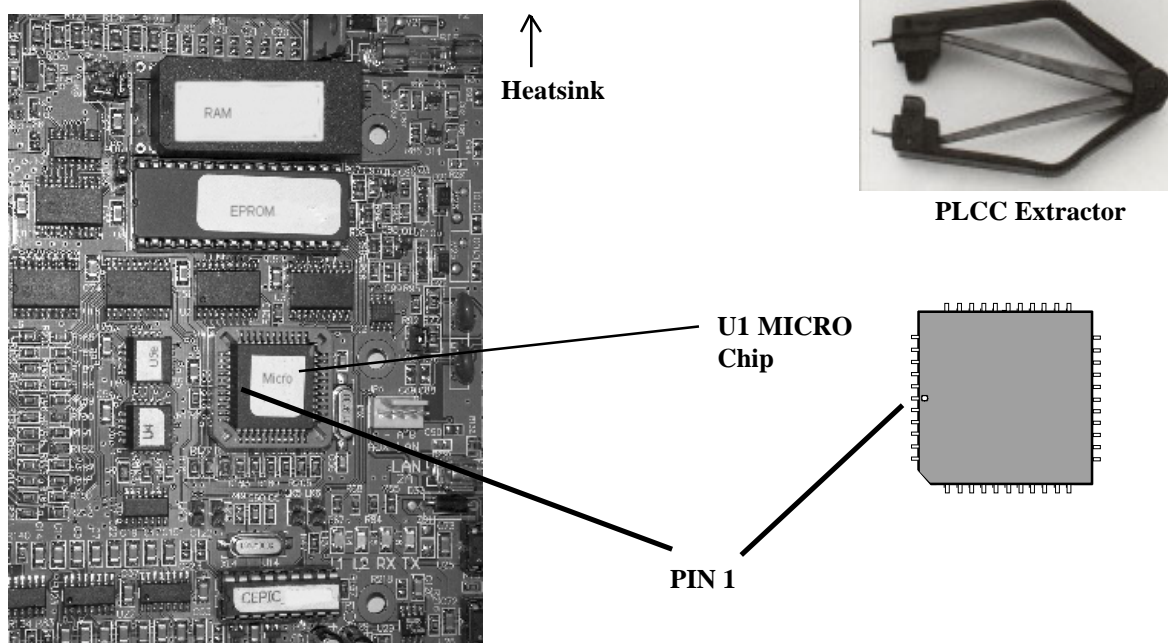
Carefully remove the IC with help of an IC puller or a very small screw driver. Make sure the chip is inserted into the socket with correct orientation.



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## MICRO Chip Upgrade, U1

Carefully remove the IC with help of a PLCC extractor, DO NOT USE a screw driver. Make sure the upgrade chip is inserted into the socket with correct orientation. PLCC sockets are easy to damage, use care while changing chips.

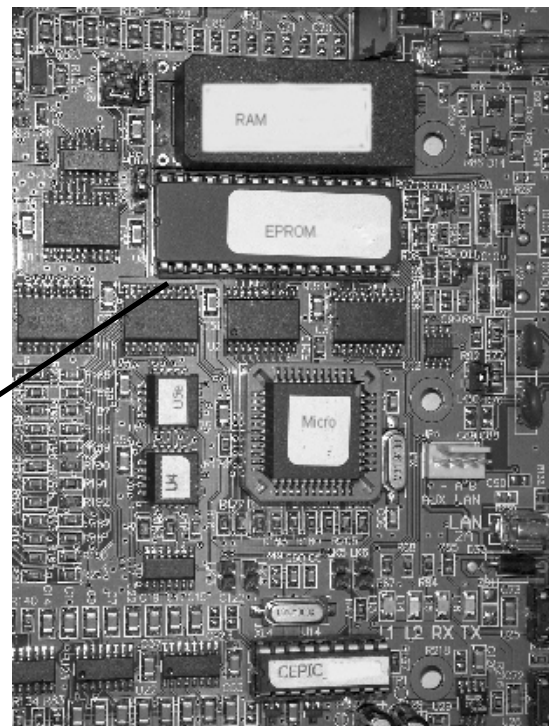
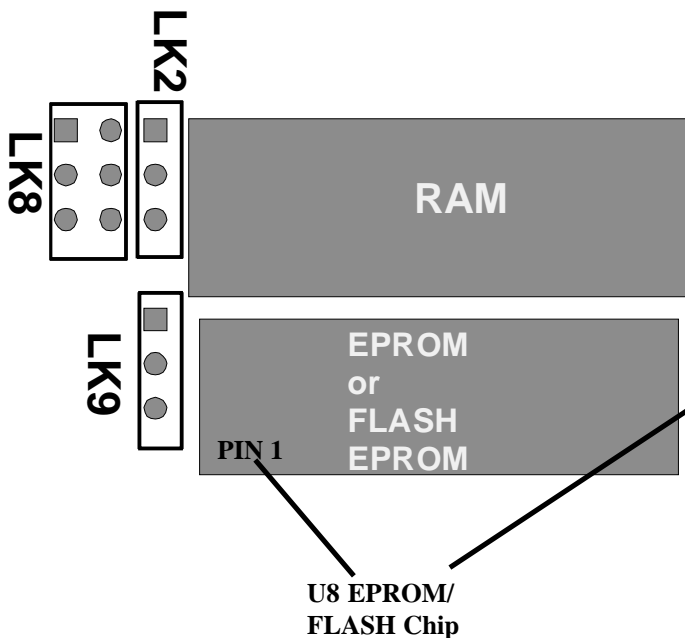


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## EPROM Chip Upgrade, U8

The Type 2 Firmware may be programmed into an EPROM (UV erasable with window) or a FLASH programmable EPROM (eg 29F020, 29F040) the LINK settings are jumpered according to the type and memory size. Carefully remove the IC with help of an IC puller or a very small screw driver. Make sure the chip is inserted into the socket with correct orientation and the IC pins are seated correctly and LK8 and LK9 links are changed to suite the chip inserted.

EPROM Type	FIRMWARE VERSION	LK8 Settings	LK9 Settings
-			
EPROM 2 Meg	V4.5 & earlier	1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/>	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3
FLASH 4 Meg	V5 & later	1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/>	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3



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### Disclaimer:

1. The manufacturer &/or it's agents take no responsibility for any damage, financial loss or injury caused to any equipment, property or persons resulting from the correct or incorrect use of the system or it's peripherals. The purchaser assumes all responsibility in the use of the system and it's peripherals.
2. While every effort has been made to ensure the accuracy of this manual, the manufacturer assumes no responsibility or liability for any errors or omissions. Due to ongoing development, this manual is subject to change without notice.