R A D I O N I C S

READYKEY® K2199
K2100 / K1100 Door Controller Update Kit

Description
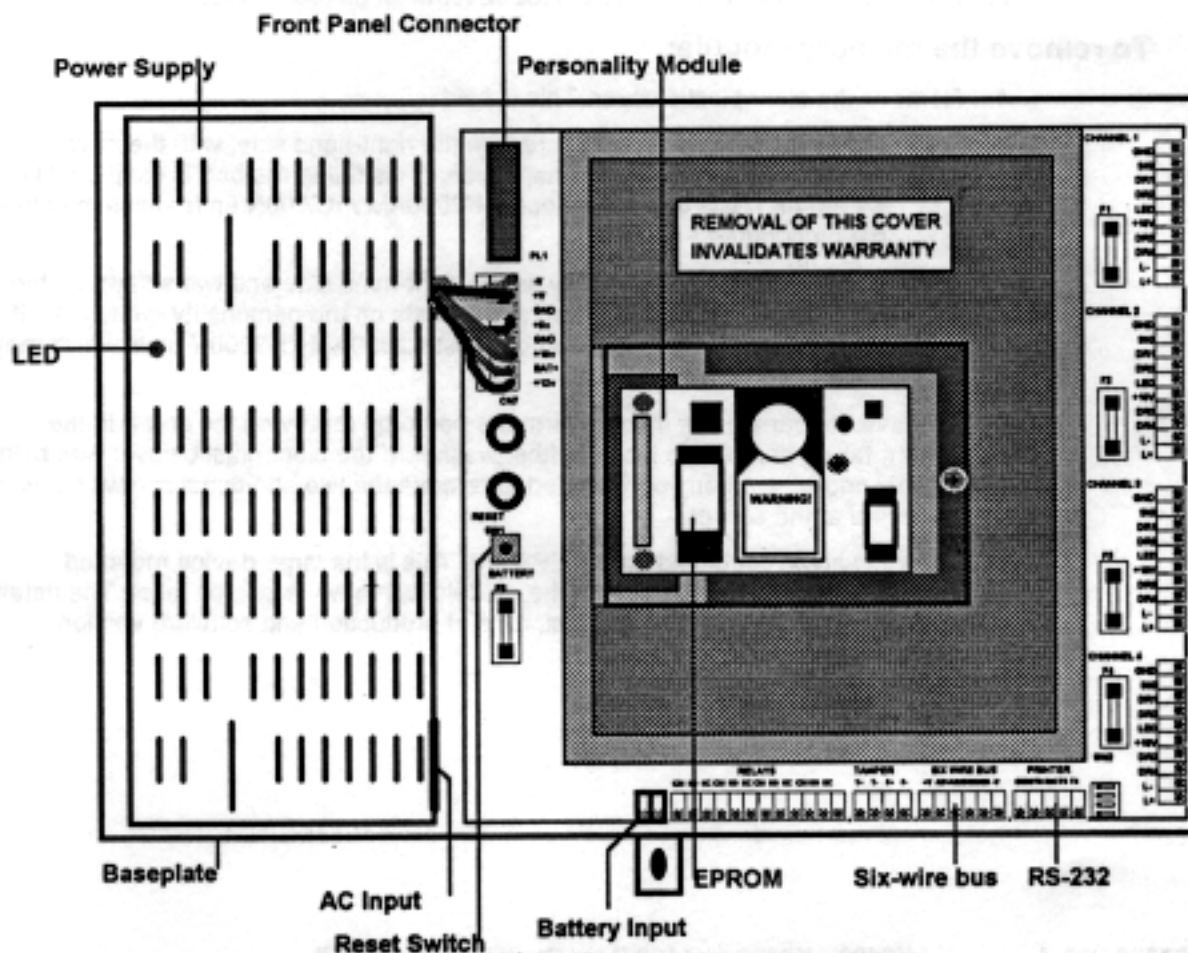
The contents of this kit are:-

1   EPROM marked   K2100/1100 Vx.y, 1 OF 1 dd/mm/yy

where x.y is the software version
and dd/mm/yy is the date of manufacture.

This software EPROM will allow you to update the software contained in an existing
K2100 or K1100 to the current production version.

Installation

Power Supply

Front Panel Connector

Personality Module

REMOVAL OF THIS COVER
INVALIDATES WARRANTY

WARNING!

LED

Baseplate

AC Input

Reset Switch

Battery Input

EPROM

Six-wire bus   RS-232

> **IMPORTANT**
>
> Before starting work on the K2100 / K1100 switch off AC power and remove any battery backup (but do NOT touch the small cell battery on the personality module).
>
> Anti-static handling precautions should be taken at all times while following this procedure.
> - Keep all components in their packaging until needed.
> - Discharge any static build-up by touching the metal back plate.

The software for this product is located on a small board, the K2105 personality module, visible under a clear plastic cover on the front of the unit. This board should be removed to replace the EPROM.

First steps

1. Remove AC power and any battery backup supply - but do NOT touch the small cell battery on the personality module.

2. To remove the front panel: unclip from the right-hand side of the base plate, swing the panel towards you, disconnect the ribbon cable from its socket on the main board and pull the panel from the slots on the power supply.
   Note: If the Door Controller you are updating was upgraded from an earlier model (such as a K2000AM or K2000N), then the front panel may be secured to the lid of the cabinet.)

3. Remove the six-wire bus and / or RS232 terminal blocks, if used.

To remove the memory module:

4. Remove the clear plastic cover. This is held:

   - **either** by one self-tapping screw on the right-hand side, with the cover located by a tab on the left-hand side. (This fitting method is used on all new K2100 / K1100s and some recent K2000AM / K2000N units which may have been upgraded.)

   - **or** by one self-tapping screw on the right-hand side and two screws on the left-hand side attached to two metal posts on the personality module itself. (This fitting method was used on most K2000AM / K2000N units which may have been upgraded.)

5. Remove the personality module form the board by removing the screw in the center, taking care not to lose the fiber washer. If the clear plastic cover was held by only one screw then you will need to remove the two additional screws holding the board at the socket.

6. The software is contained on the EPROM. This is the large device mounted vertically on the left-hand side of the module with a white printed label. The details on the label include type of product, date of production and software version number.

To replace the software:

7. Note the orientation of the EPROM device. There is a small dimple on the top edge of the EPROM as it rests in the socket.

8. Use an IC extractor, or a small flat bladed screwdriver inserted under the chip at each end of the socket, to remove the device. Take care not to damage the legs as they leave the socket.

9. Insert the replacement EPROM with exactly the same orientation (dimple towards the top), **taking great care that each leg inserts into the corresponding holes without bending.**

10. Replace the personality module in the main unit following the reverse of the procedure previously described. **Ensure that the fiber washer is fitted on the center securing screw.**

11. Replace the clear plastic cover.

12. Mount the front panel, if used.

13. Reconnect the six-wire bus and / or RS232 terminal blocks, if used.

14. Apply AC power to the Door Controller and reconnect any battery backup.

Check for normal operation:

With the front panel connected, press the ? key, the display should show:

```
2100  Mm   V2-00
```

or:-

```
1100  Mm   V2-00
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where m is the System Type, 0,1,2,3 of the K2100.
Consult the *K2100 Installation Manual* for a full
description of the different system types.

This indicates that the new software is installed. No further action is required and the Door Controller should continue operating as normal.

Master Controllers, System Types 0,1,2

- Operate a request to exit switch, or short DR2 to GND at the reader connector, for channel 1. DOORS OPEN 1 should be displayed.

- Present a known working key to door reader 1. Again DOORS OPEN 1 should be displayed.

- Any transactions should also appear on the printer (system type 0, if used), or at the administration PC (system type 1 or 2, controlled from Readykey for Windows™, K6000-AM Office Administration Kit, K6000-MS).

- Check that any slave controllers used are also being polled again.

Slave Controllers, System Type 3

- If the unit communicates through the six-wire bus or a permanent RS232 link then it should start responding to a poll from the master controller (K2100, K6000 CNC or K2000AM). This will be indicated by its address flashing on the right of the screen display (addresses are displayed 1-9 followed by A for 10, B for 11 up to W for 32). The more Door Controllers on the bus then the longer it will take to poll each one - up to 45 seconds.

- If the unit is on a dial-up link (K6000-MS only) then a forced dial should be performed to check communications.

- Operate a request to exit switch, or short DR2 to GND at the reader connector, for channel 1. *DOORS OPEN 1* should be displayed.

- Present a known working key to door reader 1. Again *DOORS OPEN 1* should be displayed.

Possible Problems:

If the unit gives a constant whistle or unusual displays then switch off and insure the EPROM is properly fitted, checking the position, orientation, no legs sticking out etc.

In all cases the database will be preserved as it was before the update. Any changes necessary to implement new features will be automatically performed when first powered up after the update.