

FIRST LINE OF DEFENCE

M60

Version 6

CHANGING SOFTWARE



Compatible with: M30,M60 Ultimate, M60V5

Packs **Infotel** Limited

Alarm Dialler

Preparation



Preparing to change the software

We advise that before proceeding with the replacement of the M60 Software, that the person who will be carrying out the replacement is competent in working with electronic equipment.

Although there is no technical knowledge required to carry out the replacement of the Software, a familiarity working with electronic equipment is advisable.



- If possible wear a grounding strap, otherwise it is advised that you ground yourself before continuing.
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VERY IMPORTANT



- Under **NO** circumstances should the software EPROM/PROM be changed when the M60 still has power to the CPU (i.e. The LCD display still has power/information displayed). Please read below for further information.
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To remove all power to the M60 CPU, the Mains **MUST** be disconnected **AND** the back-up battery **MUST** also be switched off, this can be done by pressing the **OFF** button on the M60 PSU.

For further information please refer to the installation manual.

Keywords



Explanation of Keywords

Below is an index of the keywords/acronyms used in this documentation. The index has been provided to help those users who may not be familiar with electronics terminology.

If you are unsure at any point during the installation of the new software please contact:

Email: info@packsinfotel.com Tel: +44 1344 - 874664

Keyword/Acronym	Explanation
Circuit Board	The Circuit board contains all the electronic components (short for PCB)
CPU Board	The M60 circuit board that holds both the C entral P rocessor U nit and the M60 Software.
EPROM	E rasable p rogrammable r ead- o nly m emory. Used to store the programme that operates the M60
I.C	I ntegrated C ircuit such as the EPROM, PROM, Processor...
I.C Socket	A socket on the circuit board to insert an I.C.
Membrane/Front Panel	The M60 Membrane is attached to a metal plate with the keypad switches, along with the display, alarms, logo and annotations.
PROM/P-ROM	P rogrammable r ead- o nly m emory. Used to store the programme that operates the M60 on newer units.
PSU	M 60 P ower s upply u nit. Fitted in the bottom of the case, and is responsible for powering and detecting alarms, charging battery, etc.
Ribbon Cable	50 Way ribbon cable that connects between the M60 CPU and PSU

Accessing the M60 CPU



How to access the M60 CPU board

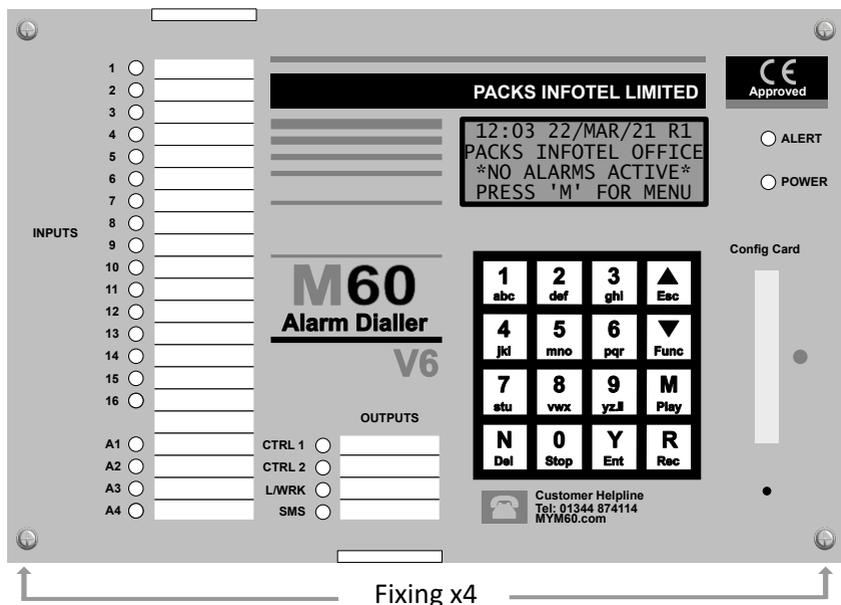
The M60 software is fitted on the M60 CPU circuit board. The CPU board is piggybacked to the Membrane (sometimes also referred to as the 'front panel') as shown in diagram 1.

To access the M60 CPU circuit board:

1. Undo the four (4) fixing screws found in each corner of the membrane.
2. Carefully pull the membrane from the top towards yourself to reveal the M60 CPU board piggybacked to the membrane.

Be careful not to tug on the ribbon cable that connects the M60 CPU to the M60 Power supply unit (PSU)

Diagram 1



Locating the software



How to locate existing M60 software

After accessing the M60 CPU, look towards the top left of the PCB to locate the existing Software EPROM.



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- If the CPU was dropped from the **top** towards yourself, then the top of the PCB is nearest to you.
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If you are confident with electronic equipment, the next part can be made easier by disconnecting the 50 way ribbon cable from the CPU board, thus allowing the CPU to be placed on a flat surface to work on.



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- If you choose to disconnect the ribbon cable it is recommended that all power to the M60 is removed.
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- If you are not confident with electronic equipment, you may find the replacement of the Software to be easier if you have help from someone to hold the CPU, whilst you work.
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Once access and the location of the Software EPROM/PROM has been completed, you are ready to move to the next stage 'Changing the software'.

Changing the Software



How to change the existing software

1. Before removing the existing Software EPROM, look very carefully at the I.C on the Software EPROM and you will see at the top centre of the I.C a small semicircular notch, as show in diagram 1. The replacement Software EPROM **MUST** be fitted in the same direction. Failure to do so will damage the Software EPROM beyond repair.
2. Remove the existing Software EPROM from the I.C socket using an I.C Extractor tool. If an I.C Extractor tool is not available then a Flathead screwdriver could be used with care. If a Flathead screwdriver is to be used then place the screwdriver under the existing Software EPROM and carefully lever the Software EPROM from the I.C socket.
3. Once the existing Software EPROM has been removed, take the replacement Software EPROM and fit as shown in the diagram 2. Ensure the pins are all aligned and fully inserted into the respective socket.



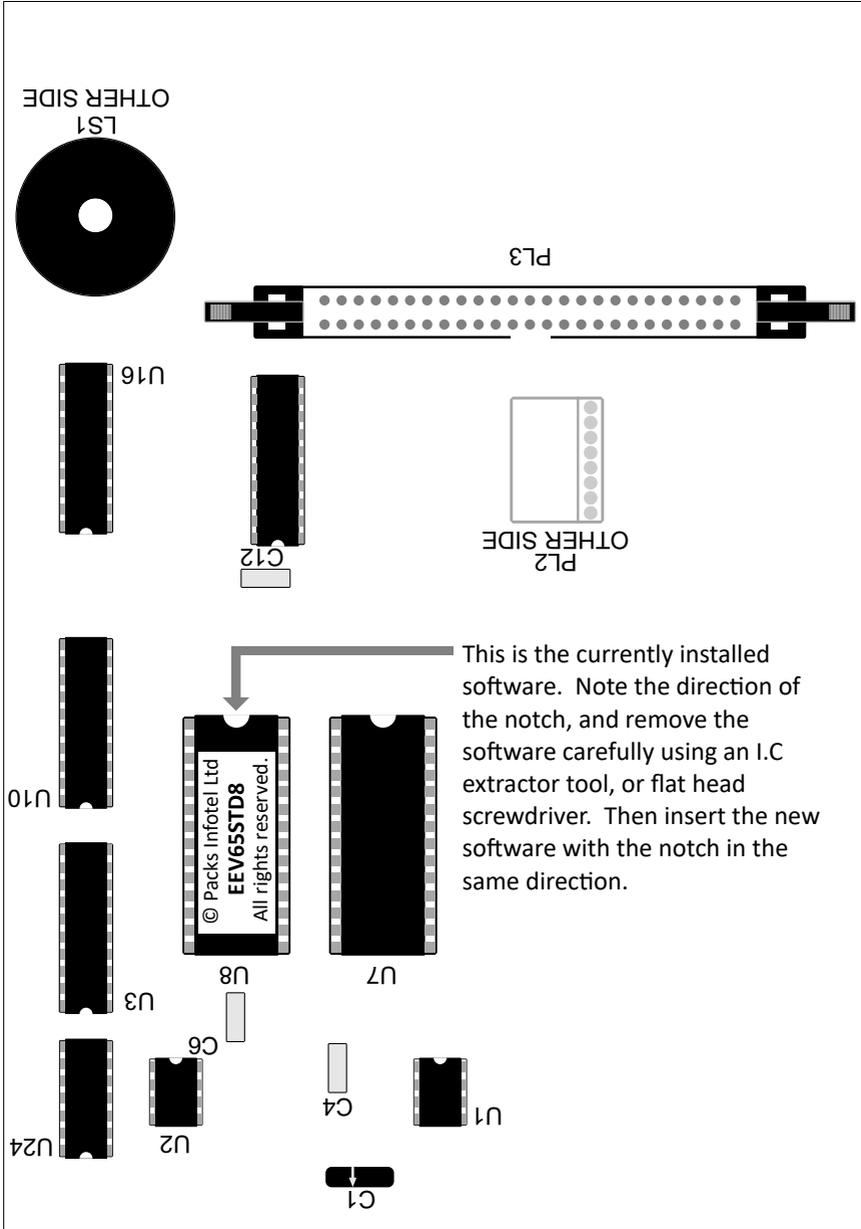
- Note that 'Software EPROM' is interchangeable with the acronym PROM (i.e. Software PROM).
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Diagram 1



- The above is an example of a software version, the version of software received will depend upon the customer requirements.
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Diagram 2 Locating the M60 software



TOP REAR LEFT (SIDE A)

Testing the M60



Check the software installation



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- It is **EXTREMELY** important that you test the M60 after completing the changing of the Software EPROM/PROM!
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Below is the **MINIMUM** checks that **MUST** be carried out after a software change:

1. Turn on the power and check that the M60 first initialises, and then after 5 seconds shows the default display. (see the M60 Operating instructions for further information). If the initialise display does **NOT** show and/or the M60 begins to beep rapidly, **IMMEDIATELY** turn off **ALL** power to the M60 and check the software installation or contact us immediately.
2. With some M60 software versions, the telephone numbers will be lost when **BOTH** the mains supply **AND** the back-up battery power has been removed. It is therefore **VITAL** to check the telephone numbers stored in the M60 and if necessary to re-enter the telephone numbers. (see the M60 Operating instructions for more).
3. Check the M60 dials-out correctly and can be cancelled by either calling back the M60 (See Operating Instructions), or using the '0' key on the telephone. (optional M60 feature).
4. Check that your **NEW** software feature(s) are working as expected.

Contact details



How to contact us:

If you need to contact us about further information on changing the software on the M30/60, or any other information regarding our Alarm diallers, accessories, replacements, or additional software updates; then please do not hesitate to use any of the following forms of communication.

Email: info@packsinfotel.com

Telephone: +44 (1344) 874114

Facsimile: +44 (1344) 874664



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- Our preferred form of communication is an email, with the details of the information you require. This allows us to assign the best Engineer/Technician, or sales representative for your specific requirements.
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Thank you for choosing
Packs Infotel
Professional Alarm diallers since 1956