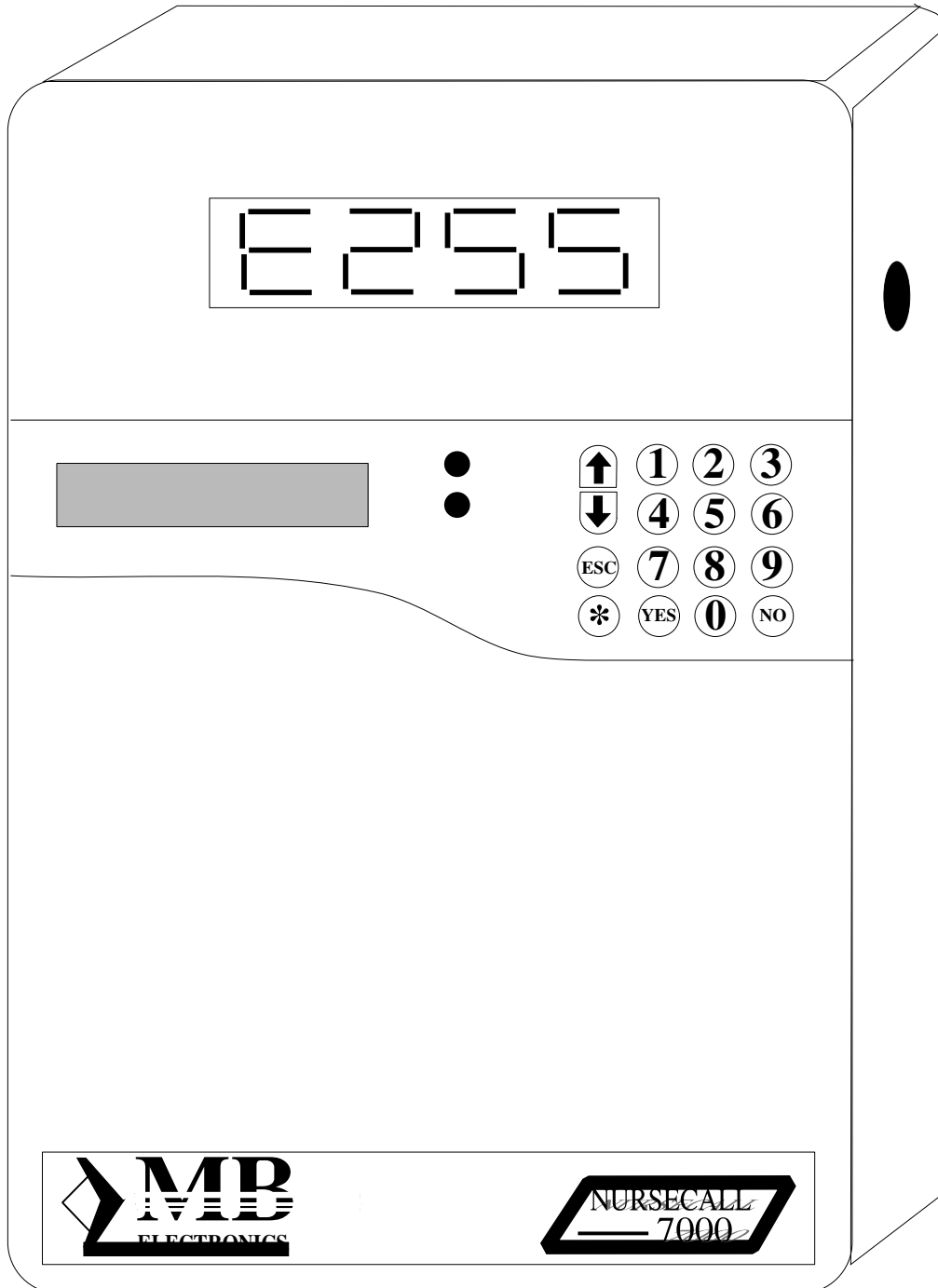


**MCR 7000 CALL PROCESSOR
NURSE CALL SYSTEM**

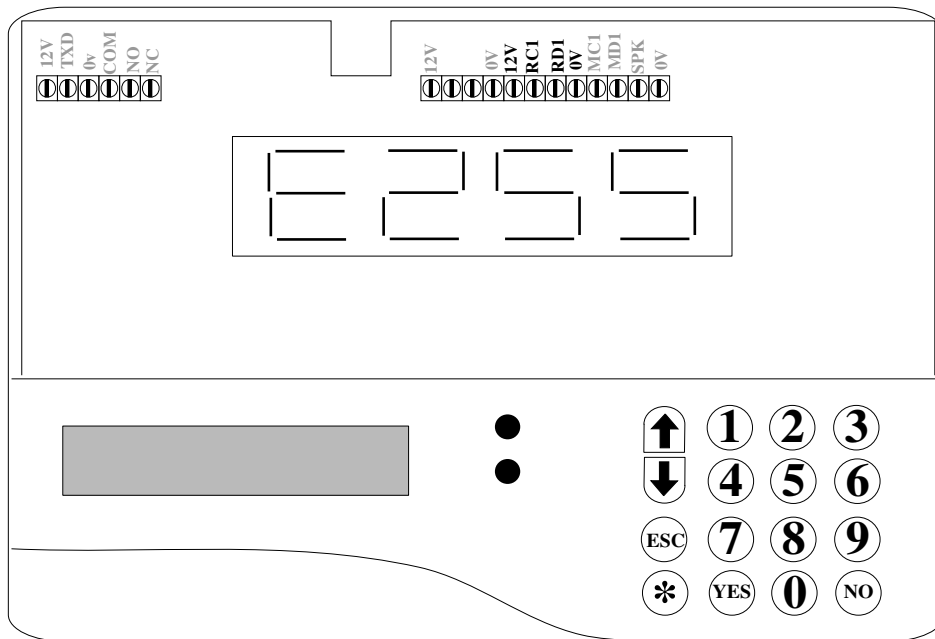
INSTALLATION GUIDE



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RADIO CONNECTION



Connection

The radio has four connections these should be wired back to the main call processor receiver (see figure above). Standard four core cable can be used and this may be extended for up to 200 metres.

NEVER EXTEND THE COAXIAL CABLE BETWEEN THE RADIO AND ANTENNA

RADIO	CONNECT TO	CALL PROCESSOR
POS	CONNECT TO	12V
C	CONNECT TO	RC1
D	CONNECT TO	RD1
NEG	CONNECT TO	0V

LOCATION

The radio should be located indoors at least 2 metres away from the main call processor, the radio may be located in a loft area with the antenna, the antenna should be vertically orientated

FIXING

The radio has a mounting bracket which can be screwed in position. once located in the correct position the radio simply clips onto the bracket.

SET UP PROCEDURE

Pressing **KEYS 6,8,4** in sequence at any time will enter the SETUP PROCEDURE.

Change Housecode will be displayed on the L.C.D
yes or no

If the answer to the above question is yes

Enter 00 to 63

??

Use the keyboard to enter required housecode.

CHANGE RX FORMAT will be displayed on the L.C.D
yes or no

If the answer to the above question is yes

Enable 20 Bit

YES or NO

press yes or no

Enable 12 Bit

YES or NO

press yes or no

Enable 09 Bit

YES or NO

press yes or no

Change Relay Time

YES or NO

press yes or no

If the answer to the above question is yes

ENTER Seconds

???

Use the keyboard to enter required seconds.

Change Pager Num

(12) Yes or No

If the answer to the above question is yes

2 DIGIT 00 - 99

??

Use the keyboard to enter required number.

MIMIC INSTALLATION

When wiring mimic panels the following points must be observed

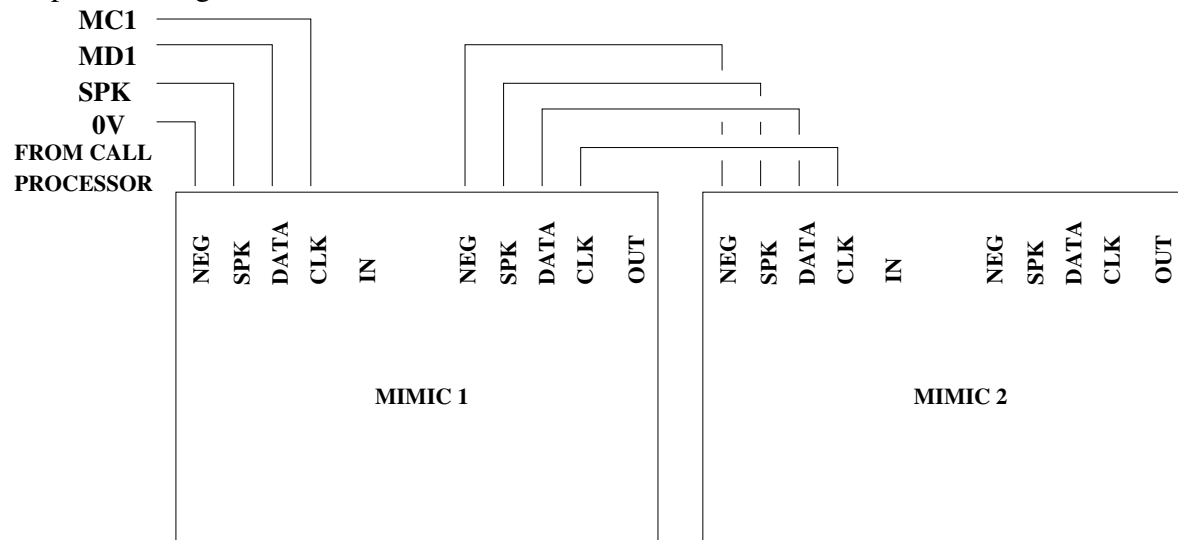
- 1) The mimic panels must be wired in series (4 core alarm cable)
- 2) Power **MUST** be removed from the Call Processor and the mimic panels

INSTALLATION

- 1) Remove the lid retaining screw and remove lid
- 2) Remove the fuse, situated in the bottom right hand corner of the P.C.B
- 3) Connect your INPUT wires in the correct order (see page 5)
- 4) Connect your OUTPUT wires in the correct order (see page 5)
- 5) Connect to the mains via a 3 amp fused spur (to enable ease of fitting the mains cable the P.C.B may be unclipped)
- 6) Replace fuse & lid

Multiple Mimics

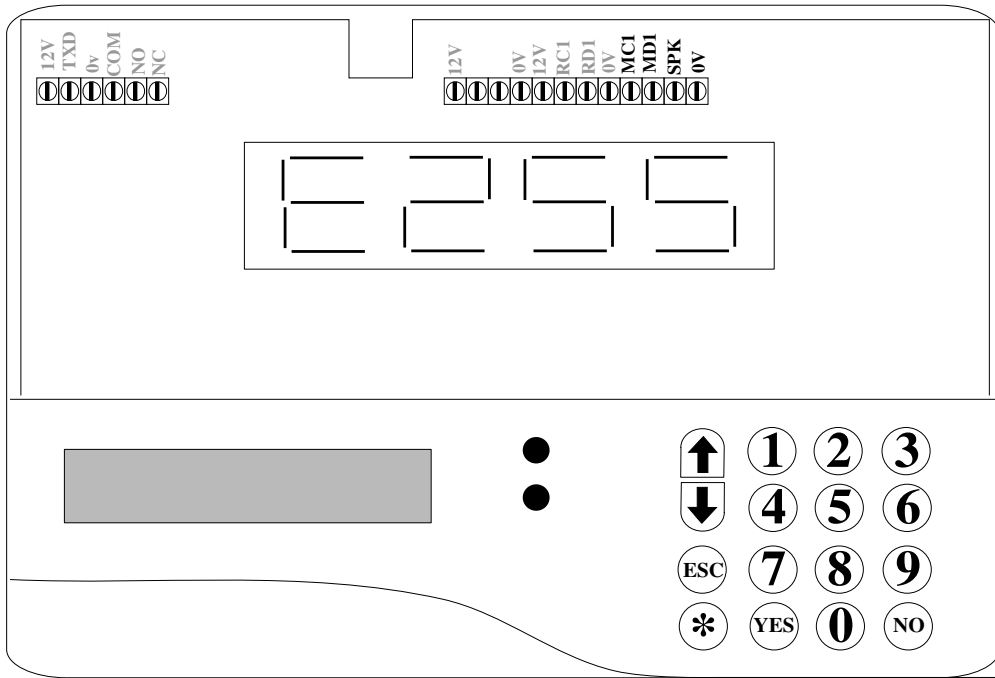
If more than one mimic is to be used they must be wired in series, each mimic has an input and output. see diagram below:



Power supply

Each mimic panel comes complete with its own built in power supply, This supply should be connected to a 240 volts AC 3 Amp fused spur wall socket.

MIMIC WIRING

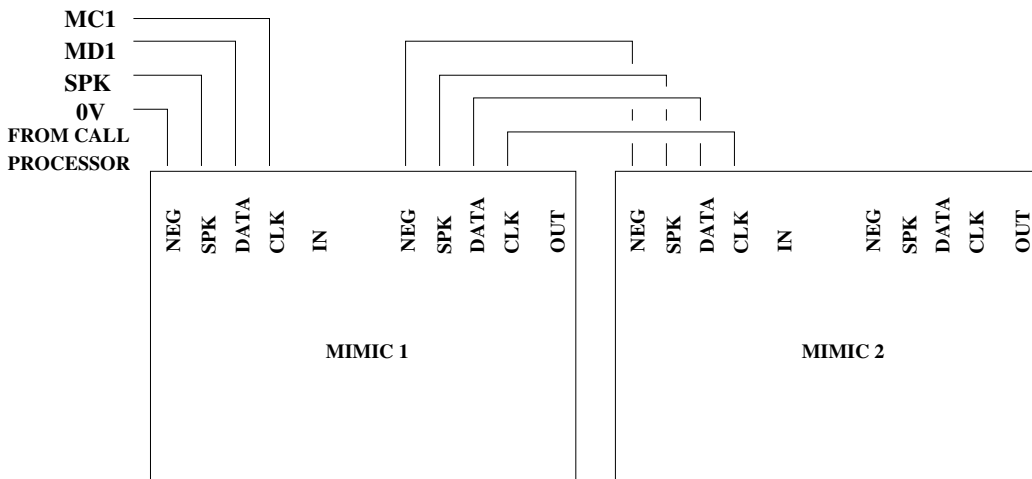


Connection

The MIMIC has four connections these should be wired back to the main call processor receiver (see figure above). Standard four core cable can be used.

Multiple Mimics

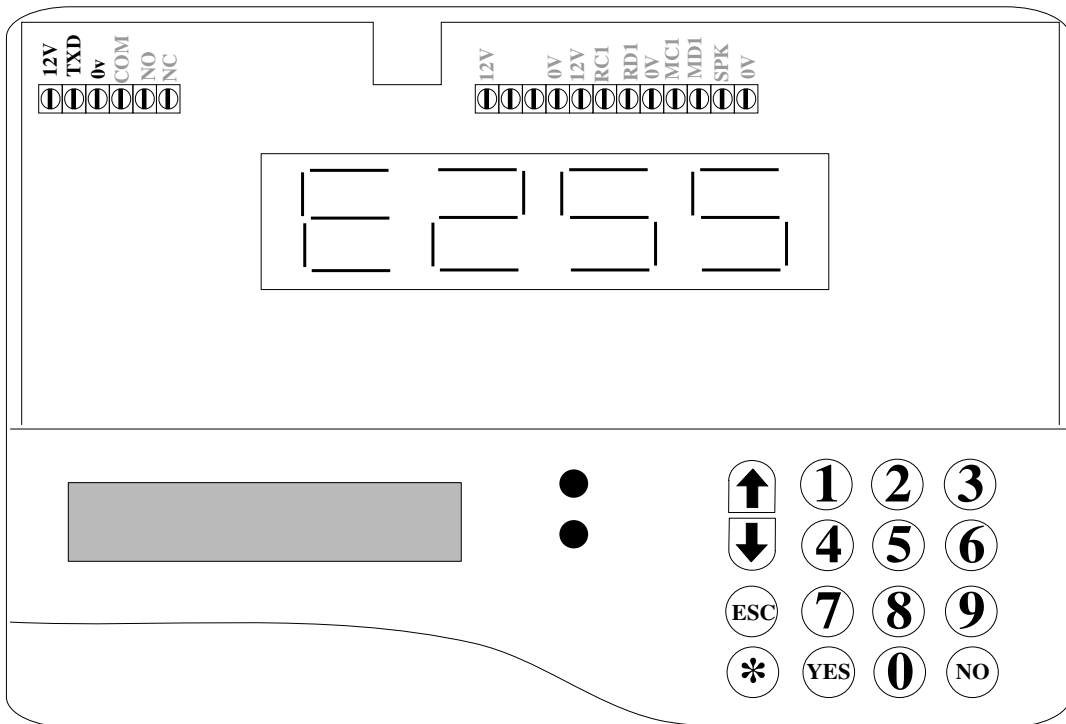
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Power supply

Each mimic panel comes complete with its own built in power supply, This supply should be connected to a 240 volts AC 3 Amp fused spur wall socket.

PAGER & PRINTER CONNECTIONS



Astra6000 Connection

+
-
RXD

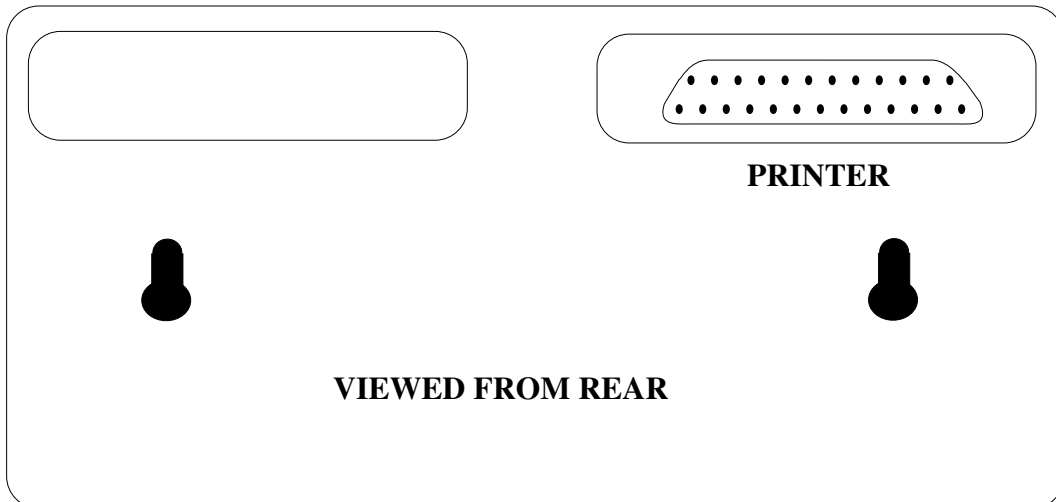
MCR7000 Connection

12V
0V (see diagram above)
TXD

Printer Connection

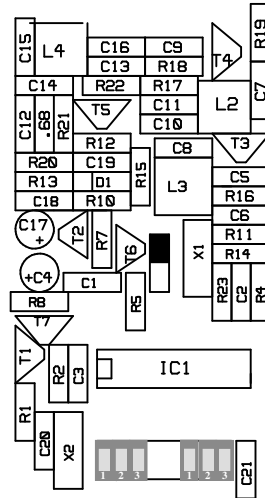
The printer will be supplied complete with a 25 way connector this must be connected between the call processor and the printer, the printer will also need to be plugged into a mains socket.

FOR MORE INFORMATION ON PAGING & PRINTING SEE USER GUIDE



REPEATER TRANSMITTER

Removing the top cover of the radio receiver enables access to the repeater transmitter. This is located in the top cover and is shown in the picture below



The repeater transmitter enables the MCR7000 to pass on any received calls to radio mimic panels that may be fitted, if the MCR7000 is to be used on its own disable the repeater transmitter as there is no advantage to leaving it enabled.

The Repeater transmitter is setup up as follows:-

The left hand bank of three switches set the housecode that the repeater operates on. This would normally be the same housecode as the MCR 7000 is set to , the house code of the MCR 7000 is displayed on the small LCD display an example would be N.C 22h02 this indicates that the system is set to housecode 2.

Setting The housecode

The left hand bank of three switches sets the housecode that the repeater operates on.

Switch 1 has a value of 1

Switch 2 has a value of 2

Switch 3 has a value of 4

To set a housecode of 2 switch on(up) switch 2

To set a housecode of 3 switch on(up) switch 1,2

This setting is normally setup at the factory and need not be changed

The Right hand bank of three switches have the following use.

switch 1 turn on(up) off(down) the test transmission (this is normally used when installing radio mimics).

switch 2 is unused.

switch 3 enables(up) or disables(down) the repeater transmitter.

SITE TESTING

When installing a nurse call system care must be taken when siting the main receiving antenna (see radio connection page 3 for more details.)

If there is a group of transmitters that do not reach the main MCR 7000 receiver a radio mimic can be located near these transmitters and the repeater transmitters can be turned on. You can test the repeater transmitters as follows:-

Testing Mimic Repeater Link

Site the radio mimic in a location that picks up all the transmitters that do not reach the MCR 7000 receiver now turn on the repeater transmitter (switch 3 right hand bank) within the mimic panel and set it to test mode (switch 1 right hand bank)
(see mimic panel instruction for more details.)

The MCR 7000 receiver should be receiving P999 and cancelling every few minutes. If the link between the mimic and the MCR7000 is not reliable, a larger antenna for the repeater can be used on the mimic panel. Once you have a reliable link turn of the repeater in the mimic panel and turn off test mode.

Testing MCR7000 Repeater Link

(See page 3 for repeater connector antenna this antenna is used for repeating calls only not receiving)

Now turn the repeater on and test mode on in the MCR7000 and repeat the above eg. the mimic panel should now be receiving P999 and cancelling every few seconds again if the link is not reliable a larger antenna can be used on the repeater transmitter at the MCR7000. When the link is tested turn off test mode and the repeater transmitter in the MCR7000 receiver.

When you are satisfied that the link is reliable between the mimic and the MCR7000 turn on the repeater transmitters in both units ensuring that the test mode is turned off in both. Now try one of the transmitters that did not reach the MCR7000 you will find that the mimic will pick up the transmitter and four seconds later re-transmit the call to the MCR7000.

Hints & Tips

great care should be taken when using repeaters, that four seconds is left between calls, if you cancel the call while a repeater is still transmitting the call may re-appear in real use this is never a problem as there is always more than 4 seconds between calls.

You may find it useful to code a standard nurse call transmitter to 999 as this can then be used to cancel any test calls that may be left in the system.

Only use repeater transmitters if necessary you may find that you can add extra mimics without using the repeater transmitter.

MCR 7000 WALL TEMPLATE



156mm



175mm

