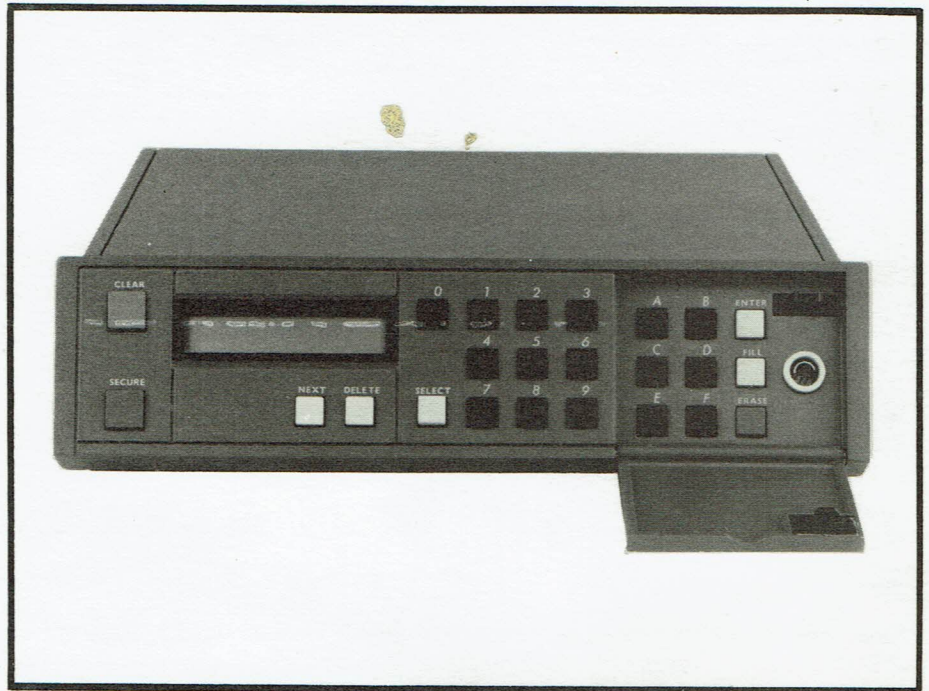


MA 4471 Telephone Encryption Unit



OPERATING INSTRUCTIONS

Part No. 461573 ; A32830C/CS ; Issue 1, 4.91.

RACAL

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1 PREPARATION FOR USE

Ensure that the telephone is connected to the MA4471 Telephone Encryption Unit, which is in turn connected to the line.

Ensure that the power supply is connected to the MA4471 and the mains. (The telephone can be used for all normal (Clear mode only) operations regardless of whether power is available).

For new installations, or further information, refer to the MA4471 User Handbook.

2 CLEAR OPERATION

For Clear telephone calls, the associated telephone is used in the normal way.

(If power is applied to the MA4471, it automatically switches on when the telephone handset is lifted, and switches off when the handset is replaced).

3 SECURE OPERATION

For a Secure call, the unit must have encryption keys loaded (refer to the MA4471 User Handbook), and power applied.

If the key number that is to be used for Secure calls is known, it can be selected in advance, as detailed in Paragraph 5.

Initiate the call as for a Clear call.

When the telephone handset is lifted, the display on the MA4471 briefly shows:

TESTING

followed by:

CLEAR KEY XX

where XX is the key number (00 to 16) that is currently selected for use in Secure calls. This must match the number that is in use at the distant unit. If it is necessary to change to another key, see Paragraph 4.

To select Secure mode, press the SECURE button. It is preferable that only one user should do this.

The displays (at both ends of the line) show:

SYNCHRONISING

then:

SECURE KEY XX

and communications are now Secure.

The MA4471 automatically controls the flow of Secure speech, and it displays status information to assist the user.

While a unit is transmitting Secure speech, its display shows:

SECURE TRANSMIT

and the distant unit shows:

SECURE RECEIVE

When neither unit is transmitting, the displays show:

SECURE KEY XX

If necessary, Clear mode can be reselected (for example, if there are problems in Secure mode): press the CLEAR button on both units.

On completion of a Secure call, replace the handset. The MA4471 automatically switches off.

4 SELECTING A KEY DURING A CALL (HANDSET OFF-HOOK)

To select a different key number during a call, press the SELECT button. (This is possible only during Clear calls. Clear conversation can continue while the selection is made).

The display briefly shows the number of the currently-selected key (shown as XX in this example):

CLEAR SEL KEY XX

then:

CLEAR SEL KEY _

EITHER:

- (1) Enter the required key number in the range 00 to 16 (and if necessary, use the DELETE button to remove an incorrectly entered number) as shown in the following example:

<u>Press</u>	<u>The display shows</u>
0	CLEAR SEL KEY 0_
4	CLEAR SEL KEY 04
DELETE	CLEAR SEL KEY 0_
5	CLEAR SEL KEY 05

If there is no key stored for the new number, the display shows:

KEY 05 ERASED

Press the DELETE button, or wait for about two seconds. The display shows:

CLEAR SEL KEY 0_

and it is now possible to select another key.

OR:

- (2) Press the NEXT button to step through the available keys. (The fallback key, KEY 00, is not selected by the NEXT button).

When the required key number is displayed, return to Paragraph 3 to select Secure mode, or, if Secure operation is not required, press the CLEAR button to leave the Select mode.

5 SELECTING A KEY IN ADVANCE OF A CALL (HANDSET ON-HOOK)

To select a different key number, press the SELECT button. The display briefly shows:

TESTING

followed by the number of the currently selected key (shown as XX):

SELECT KEY XX

then:

SELECT KEY _

To select the key, follow one of the two methods described in Paragraph 4.

To terminate the key selection procedure, either select another mode or press the CLEAR button to switch off.

If no button is pressed for five minutes at any stage of this procedure, the MA4471 will automatically switch off).

6 EMERGENCY ERASURE OF KEYS

To erase all the keys, press the SECURE and ERASE buttons simultaneously. (For access to the ERASE button, press the top right corner of the front panel door to release the catch, then open the door).

If power is available, the display shows:

KEYS ERASED

for four seconds to indicate that the stored keys have been erased.

The fallback key (00) becomes the currently selected key.

If power is not available, the keys are erased, and the display will indicate this when the unit is next switched on.

7 ENTERING KEYS

For details of how to enter keys, refer to the MA4471 User Handbook.