

PROGRAMMING THE OPTION REGISTERS ③ & ⑦

TO PROGRAM:
 1- HOLD THE SELECTED REGISTER KEY ② → **P**
 UNTIL A "P" IS DISPLAYED (E.G. "2")
 2- ENTER A SEQUENCE OF "0"s AND "1"s AS REQUIRED

TO VIEW:
 BRIEFLY PRESS THE NUMBER OF THE REGISTER YOU WISH TO CHECK.
 THE REGISTER CONTENTS WILL BE DISPLAYED SEQUENTIALLY.

DATA IS ENTERED FROM LEFT TO RIGHT. THE FACTORY DEFAULT SETTINGS ARE SHOWN BENEATH THE OPTIONS.

| REGISTER | INPUT CHANNEL | WHAT TO ENTER |
|------------------------|------------------------------------|--|
| INPUT INVERT ③ | 1 2 3 4 5 6 7 8 1 1 0 0 0 0 0 0 | 1 = INPUT IS NORMALLY CLOSED 0 = INPUT IS NORMALLY OPEN ← FACTORY DEFAULTS |
| INPUT DETECT TIME ④ | 1 2 3 4 5 6 7 8 0 0 0 0 0 0 0 0 | 1 = 15 SECOND DETECTION TIME 0 = 0.5 SECOND DETECTION TIME ← FACTORY DEFAULTS |
| INPUT SIREN REQUEST ⑤ | 1 2 3 4 5 6 7 8 1 1 1 1 1 1 1 1 | 1 = INPUT WILL ACTIVATE SIREN 0 = INPUT WILL NOT ACTIVATE SIREN ← FACTORY DEFAULTS |
| OPEN/CLOSE REPORT ⑥ | 1 2 3 4 5 6 7 8 0 0 0 0 0 0 0 0 | 1 = INPUT WILL REPORT "OPEN/CLOSE" 0 = NORMAL INPUT ← FACTORY DEFAULTS |
| ALARM/RESTORE REPORT ⑦ | 1 2 3 4 5 6 7 8 1 1 0 0 0 0 0 0 | 1 = INPUT WILL REPORT "ALARM/RESTORE" 0 = NORMAL INPUT ← FACTORY DEFAULTS |

PROGRAMMING THE IDENTIFICATION REGISTER **C**

REPEATER INTRINSIC CODE (OWN I.D.)

| | | | |
|---|---|---|---|
| 1 | 2 | 3 | 4 |
| 0 | 0 | 0 | 1 |

ENTER A 4-DIGIT NUMBER, NOT EXCEEDING 6.
← FACTORY DEFAULTS

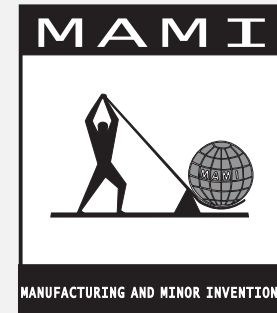
PROGRAMMING THE CHECK-IN TIME REGISTER **A**

AUTO TEST INTERVAL (IN MINUTES)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 |

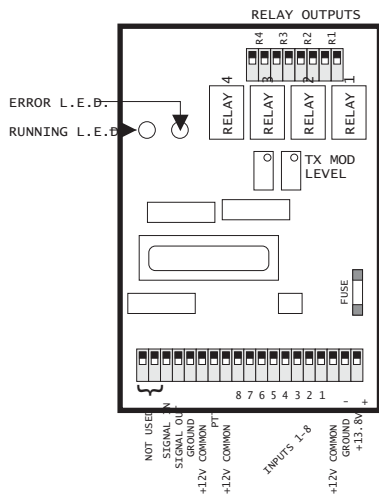
VALUE IN MINUTES OF INTERVAL BETWEEN SELF TESTS
← FACTORY DEFAULTS (60 Minutes)
(4 + 8 + 16 + 32 = 60)

1 2 4 8 16 32 64 128



S0027B02

TO RESET TO FACTORY DEFAULTS: HOLD KEY ⑨ UNTIL **E** IS DISPLAYED Page 3



I. REPEATER OPERATION:

- In standby operation, the RUNNING L.E.D. should pulse at 1 second intervals.
 - As a valid signal is received, the RUNNING L.E.D. should flicker in accordance with the received code.
 - The RUNNING L.E.D. will then switch off.
 - The repeater 'waits' for a predetermined time before re-transmitting the signal (see Programming the repeater below).
 - The PTT output is activated and the signal is re-transmitted. (The red L.E.D. will illuminate).
 - The RUNNING L.E.D. flickers in accordance with the code.
 - The repeater resumes standby operation.
- If an invalid signal is received (due to incorrect coding or a weak signal), the ERROR L.E.D. flashes on for 1 second and the RUNNING L.E.D. resumes its standby operation.

II. PROGRAMMING THE REPEATER:

The repeater needs to have options programmed into it to determine its mode of operation. These options must be programmed otherwise the repeater will not function correctly.

- Remove power from the repeater board.
- Connect the keyboard programmer to the pinstrip adjacent to the microprocessor, with the ribbon cable passing away from the microprocessor.
- Apply power to the repeater board, and wait for the '-' sign to appear on the programmer.
- Program the repeater according to pages 2,3 of this manual.

III. ALIGNING THE SIGNAL OUTPUT MODULATION LEVEL:

NOTE: ADJUSTMENT SHOULD ONLY BE PERFORMED IF A RADIO HAS NOT BEEN SUPPLIED WITH THE REPEATER BOARD.

The right hand potentiometer, shown in the figure above, adjusts the signal output modulation level. Turning the potentiometer in a clockwise direction increases the signal modulation, and in an anti-clockwise direction decreases the signal modulation. The signal modulation level should be set to a maximum peak deviation of 1.5 - 2.0 KHz.

PROGRAMMING THE OPTION REGISTERS 1 & 2

TO PROGRAM:

1- HOLD THE SELECTED REGISTER KEY UNTIL A "P" IS DISPLAYED (E.G. "2")

2- ENTER A SEQUENCE OF "0"s AND "1"s AS REQUIRED

TO VIEW:

BRIEFLY PRESS THE NUMBER OF THE REGISTER YOU WISH TO CHECK.

THE REGISTER CONTENTS WILL BE DISPLAYED SEQUENTIALLY.

GLOBAL OPTIONS REGISTER 1

(NOTE: DATA IS ENTERED FROM TOP TO BOTTOM.)

FACTORY-PROGRAMMED DEFAULT SETTINGS
ENTER YOUR SELECTIONS HERE

| | | | | | | | | | |
|---------|----------------------------|------------------------------|--------------------------------------|-----------------------------------|-----------------------------|---|---|---|--------------------------------------|
| BIT NO. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | |
| | 1 = FAST DATA TRANSMISSION | 1 = CHECK-IN TRANSMISSION | 1 = ENABLE 1 SEC. AFTER TRANSMISSION | 1 = DISABLE OTHER REPEATERS | 0 = SEND TO OPEN BLOCK BASE | 0 | 0 | 0 | } DUMMY BITS, MUST ALL BE SET TO '0' |
| | 0 = SLOW DATA TRANSMISSION | 0 = NO CHECK-IN TRANSMISSION | 0 = ENABLE IMMEDIATELY | 0 = DON'T DISABLE OTHER REPEATERS | 1 = SEND TO WNET BASE | | | | |
| | | | | | | | | | |

N.B. KEEP DEFAULT

REGISTER 2

(NOTE: DATA IS ENTERED FROM TOP TO BOTTOM.)

FACTORY-PROGRAMMED DEFAULT SETTINGS
ENTER YOUR SELECTIONS HERE

| | | | | | | | | | |
|---------|---|---|---|---|---|---|---|---|---|
| BIT NO. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | |
| | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | } THIS REPEATER BASE STATION OR NEXT REPEATER |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |

DEFAULT = 1.A

| | | | | | | | | | | | | | | | |
|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|---------------|
| NO REPEATER | REPEATER 1 | REPEATER 2 | REPEATER 3 | REPEATER 4 | REPEATER 5 | REPEATER 6 | REPEATER 7 | REPEATER 8 | REPEATER 9 | REPEATER A | REPEATER B | REPEATER C | REPEATER D | REPEATER E | ALL REPEATERS |
| 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

TO RESET TO FACTORY DEFAULTS: HOLD KEY [2] UNTIL [E] IS DISPLAYED