### Programming the Option Registers 3 & 7

**To Program:**
1. Hold the selected register key until a "P" is displayed (e.g., "P")
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.

<table>
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<th>Register</th>
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<th>What To Enter</th>
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<td><strong>Input Detect Time</strong></td>
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</tr>
</tbody>
</table>

**Programming the Identification Register**

**Repeater Intrinsic Code (Own I.D.):** Enter a 4-digit number, not exceeding 6.

**Programming the Check-In Time Register**

**Auto Test Interval (in minutes):** Value in minutes of interval between self tests. (e.g., 32 = 60 minutes)

**To Reset to Factory Defaults:** Hold Key "9" until "P" is displayed.

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I. REPEATER OPERATION:
1. In standby operation, the RUNNING L.E.D. should pulse at 1 second intervals.
2. As a valid signal is received, the RUNNING L.E.D. should flicker in accordance with the received code.
3. The RUNNING L.E.D. will then switch off.
4. The repeater ‘waits’ for a predetermined time before re-transmitting the signal (see Programming the repeater below).
5. The PTT output is activated and the signal is re-transmitted. (The red L.E.D. will illuminate).
6. The RUNNING L.E.D. flickers in accordance with the code.
7. 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.
1. Remove power from the repeater board.
2. Connect the keyboard programmer to the pinstrip adjacent to the microprocessor, with the ribbon cable passing away from the microprocessor.
3. Apply power to the repeater board, and wait for the '-' sign to appear on the programmer.
4. 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 clockwise 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.