

If your serial number is not legible on your XTS3000 radio, use the following procedure to enter Test Mode. The serial Number will begin with 620 for most XTS3000s provided by the State Grant process. All Motorola serial numbers have the following format:


123ABC1234

This section describes test mode functionality.

## 6.2.1 Entering Test Mode

Follow the procedure below to enter test mode.

### Procedure 6-1 Entering Test Mode

|          |   |
|----------|---|
| <b>1</b> | Turn the radio on.  |
| <b>2</b> | Within 10 seconds after the self test is complete, press <b>Side Button 3</b> five times in succession.   |
| <b>3</b> | The radio will show a series of displays that will give information regarding various version numbers and subscriber specific information. The displays are described by the following table, "Front Panel Access Test Mode Displays" (Table 6-2).  |
| <b>4</b> | Press <b>Side Button 1</b> to stop the displays and put the radio into the Control Top and Keypad test mode. The test mode menu CH TEST is displayed. Go to the "Control Top and Keypad Test Mode" section.   |
|          |  <div style="background-color: #0070C0; color: white; padding: 2px 5px; display: inline-block; font-weight: bold;">NOTE</div> <p>Each press of the <b>Side Button 1</b> will toggle between CH TEST and RF TEST.</p> |
| <b>5</b> | <b>OR</b>   |
| <b>6</b> | Press the <b>Top Programmable Button (Emergency button)</b> to stop the displays and put the radio into the RF test mode. The test mode menu 1 CSQ will be displayed, indicating test frequency <u>L</u> , <u>C</u> arrier <u>S</u> quelch mode. Go to the RF Test Mode section.                        |

The table below describes front panel access test mode displays.

**Table 6-2** Front Panel Access Test Mode Displays

| Name of Display             | Description   | Appears                            |
|-----------------------------|---|------------------------------------|
| "SERVICE"                   | The literal string indicates the radio has entered test mode. | Always                             |
| Radio Host Software Version | The version of radio firmware is displayed.                   | Always                             |
| DSP Software Version        | The version of firmware being used by the DSP.                | Always                             |
| EMC Secure Version          | Version of the encryption hardware.                           | When the radio is secure equipped. |

**Table 6-2** Front Panel Access Test Mode Displays (Continued)

| Name of Display   | Description   | Appears                            |
|-------------------|---|------------------------------------|
| Encryption Type 1 | Type of encryption being used.                                  | When the radio is secure equipped. |
| Encryption Type 2 | Type of encryption being used.                                  | When the radio is secure equipped. |
| Model Number      | The radio's model number as programmed in the codeplug.         | Always                             |
| Serial Number     | The radio's serial number as programmed in the codeplug.        | Always                             |
| ROM Size          | The memory capacity of the FLASH part.                          | Always                             |
| FLASHcode         | The FLASHcodes as programmed as a part of the radio's codeplug. | Always                             |

**NOTE**

All displays are temporary and will expire without any user intervention. If information is longer than the physical length of the radio's display, the information wraps to the next display. After the last display, RF TEST is displayed.

## 6.2.2 RF Test Mode

When the ASTRO Digital XTS 3000 radio is operating in its normal environment, the radio's microcomputer controls the RF channel selection, transmitter key-up, and receiver muting. However, when the unit is on the bench for testing, alignment, or repair, it is removed from its normal environment. It cannot receive commands from its system and the internal microcomputer will not key the transmitter nor unmute the receiver. This prevents the use of normal tune-up procedures. To solve this problem, a special routine, called TEST MODE or "air test," has been incorporated into the radio.

### Procedure 6-2 RF Test Mode Procedure

|          |   |
|----------|---|
| <b>1</b> | Each additional press of <b>Side Button 3</b> will advance to the next test channel. (Refer to <a href="#">Table 6-3</a> .) |
| <b>2</b> | Pressing <b>Side Button 2</b> will scroll through and access test environments as shown in <a href="#">Table 6-4</a> .      |