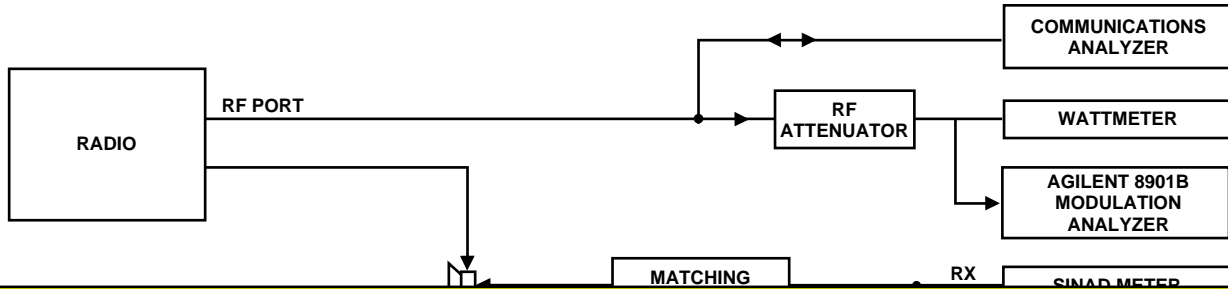


### 5.2.2 ASTRO Digital Spectra Plus



You can retrieve the Serial Number from an Astro Spectra mobile radio by following the Test Mode instructions below. The serial number will begin with 412 for most radios provided by the State Grant process. All Motorola serial numbers have the following format:

123ABC1234

The serial number will be displayed in two parts, the first 8 characters then the last two.

MAEPF-27501-0

Figure 5-2. ASTRO Digital Spectra Plus Performance Checks Test Setup

## 5.3 Test Mode

**NOTE:** The test mode for the ASTRO Spectra radio is different from the standard Spectra radio, but is similar to the ASTRO portable test mode.

Be sure to transmit into a load when keying a radio under test.

### 5.3.1 Entering Test Mode

1. To enter test mode, turn the radio on.
2. Within 10 seconds after Self Test is complete, press the **Home** button five times in succession. The Self Test for the ASTRO Digital Spectra Plus radio is displayed as SPECTRA+.
3. The radio will show a series of displays that will give information regarding various version numbers and subscriber-specific information. The displays are described in Table 5-1.

Table 5-1. Test-Mode Displays

Display Name	Description	Appears
SERVICE	Indicates the radio has entered test mode	Always
Radio Host Software Version	The version of radio firmware	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 5-1. Test-Mode Displays (Continued)

Display Name	Description	Appears
Encryption Firmware	Firmware version for encryption	When the radio is secure equipped
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
Control Head Version	Control head firmware version number	Always
Auxiliary Control Head	Firmware version for the auxiliary control head	When an auxiliary control head is present
Siren Version	Firmware version for the siren	When a siren is present
VRS Version Number	Firmware version for the VRS	When VRS is present
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	Memory capacity of the flash port	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 the information is longer than the physical length of the control head display, it will wrap around to the next display. After the last display, RF TEST will be displayed.

- Pressing the **Mode** rocker will cause the displays to stop. The test mode menu, CH TEST, will be displayed.
- Pressing the **Home** button will cause the displays to stop. The RF test mode will be entered. The display will show 1 CSQ, indicating test frequency 1, Carrier Squelch mode.
- Go to the **RF Test Mode** section.

### 5.3.2 RF Test Mode

A special routine, called **RF TEST MODE** or *air test*, has been incorporated in the radio.

- Enter the RF test mode by pressing the Home button when the test mode menu RF TEST is displayed. Use the Mode rocker to cause the radio to display the test mode menu, RF TEST, if the display reads CH TEST.**