

## Service Aid Sheet

### ASTRO XTS 2500™ Portable Radio



The following Test Equipment, Service Tools, Programming Devices and Service Manuals are used to facilitate servicing and programming. Please contact 1-800-422-4210 for pricing and delivery.

Test/Repair Equipment and Upgrade information (Contact 1-800-323-6967)

Part No.	Recommended Test Equipment	Description
R2600 Series	Communications System Analyzer	Frequency/deviation meter and signal generator for wide-range troubleshooting and alignment
Fluke 8012	Digital Multimeter	Recommended for ac/dc voltage and current measurements
R1150_*	Code Synthesizer	Injection of audio and digital signalling codes
R1377_*	AC Voltmeter	Audio voltage measurements
R1094_	Dual-Trace Oscilloscope	Waveform measurements
R1443_*	Wattmeter	Transmitter power output measurements
R1065_	Load Resistor	10 watt Broadband for use with wattmeter
S1339_	RF Millivolt Meter	RF-level measurements
R1013_*	SINAD Meter	Receiver sensitivity measurements
S1348_ (programmable)	DC Power Supply	Bench supply for 7.5Vdc

\* The R2600 Series monitor will substitute for these items.

Part No.	Service Aids	Description
0180305G54	Battery Eliminator	Interconnects radio to power supply.
5880348D33	SMA to BNC Adaptor	Adapts radio's antenna port to BNC cabling of test equipment.
6685666D01	Chassis Opener Tool	Used to remove radio knobs and to separate chassis from Front Cover.
8180384M37	Housing Eliminator Test Fixture	Special fixture that allows radio's internal board to be mounted externally. Provides easy access to electronic circuits. Required for board-level troubleshooting.
RKN4105_	USB / Test Set Cable	Connects radio to RLN4460_ Portable Test Box for radio performance checks, and to Universal Serial Bus (USB) port on personal computer for CPS programming and tuner alignments.
RKN4106_	RS-232 Test Set Cable	Connects radio to RLN4460_ Portable Test Box for radio performance checks, and to serial port on personal computer for CPS programming and tuner alignments.
RLN4460_	Portable Test Box	Used for radio performance checks. Connects to radio's universal connector and allows remote switching and signal injection/outputs for test equipment measurements.

(continued)

<b>Part No.</b>	<b>Service Aids (cont'd)</b>	<b>Description</b>
RVN4181_	Portable Customer Programming Software (CPS) and Tuner Software	CPS allows customer-specific programming of modes and features. Tuner software required to perform alignment of radio parameters. Can be used for both XTS 5000 and XTS 2500 products.
RVN4186_	Portable and Mobile Customer Programming Software (CPS) and Tuner Software	CPS allows customer-specific programming of modes and features. Tuner software required to perform alignment of radio parameters. Can be used for both XTS 5000 and XTS 2500 portables and ASTRO Spectra Plus Mobile.

*Note: The Radio Interface Box (RIB), Smart Radio Interface Box (SRIB), and any cables that connect with those boxes are **NOT** compatible with the XTS 2500 radio and should **NOT** be used.*

<b>Part No.</b>	<b>Manuals</b>	<b>Description</b>
<b><i>Paper User Guides</i></b>		
6881094C04	Model I XTS 2500 Operator's Guide with Quick Start Users Card	Provides instruction to operate the XTS 2500 portable radio.
6881094C05	Model II XTS 2500 Operator's Guide with Quick Start Users Card	Provides instruction to operate the XTS 2500 portable radio.
6881094C06	Model III XTS 2500 Operator's Guide with Quick start Users Card	Provides instruction to operate the XTS 2500 portable radio.
6881094C09	Basic Service Manual	Provides basic technical information for the XTS 2500 radios.
6881094C10	Detailed Service Manual	Provides in depth technical information for the XTS 2500 radios.
<b><i>CD User Guides</i></b>		
99P85898D01	Model I, II, III XTS 2500 Operator's Guide with Quick Start Users Card	Provides instruction to operate the XTS 2500 portable radio.
99P85899D01	Basic Service Manual CD	Provides basic technical information for the XTS 2500 radios.
99P85900D01	Detailed Service Manual CD	Provides in depth technical information for the XTS 2500 radios.



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