

Service Aid Sheet

ASTRO XTS 5000™ 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 with options	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
Agilent 8901B	Modulation Analyzer	Transmitter parameter testing. Deviation balance and limit for <2% accuracy.

* The R2600 Series Monitor will substitute for these items

Part No.	Service Aids	Description
5880348B33	SMA to BNC Adapter	Adapts radio's antenna port to BNC cabling of test equipment.
6685833D01	Housing/Casting Tool	Special tool used to separate housing and casting near battery latch area for access inside the radio.
8180384M64	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.
NLN9839_	Vacuum Pump Kit	Submersible radios only. Vacuum pump with gauge and vacuum hose. Requires NTN9279_ Adapter Kit.
NTN4265_	Pressure Pump Kit	Submersible radios only. Pressure pump with gauge and pressure hose. Requires NTN9279_ adapter Kit.
NTN9279_	Vacuum Adapter with Gasket Kit	Submersible radios only. Connects the vacuum/pressure hose to the radio's casting..
REX4424_	Battery Eliminator	Used in place of battery to connect radio to external power supply.
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 GPS programming and tuner alignments.

(continued)

Part No.	Service Aids (cont'd)	Description
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.
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.

Part No.	Manuals	Description
<i>Paper User Guides</i>		
6881094C25	Model I XTS 5000 Operator's Guide with Quick Start Users Card	Provides instruction to operate the XTS 5000 portable radio.
6881094C26	Model II XTS 5000 Operator's Guide with Quick Start Users Card	Provides instruction to operate the XTS 5000 portable radio.
6881094C27	Model III XTS 5000 Operator's Guide with Quick start Users Card	Provides instruction to operate the XTS 5000 portable radio.
6881094C28	Basic Service Manual	Provides basic technical information for the XTS 5000 radios.
<i>CD User Guides</i>		
9985901D01	Model I, II, III XTS 5000 Operator's Guide with Quick Start Users Card	Provides instruction to operate the XTS 5000 portable radio.
9985902D01	Basic Service Manual	Provides basic technical information for the XTS 5000 radios.



MOTOROLA and the stylized M Logo are registered in the U.S. Patent and Trademark Office. All other product or service names are the property of their respective owners.
 ©Motorola, Inc. 2001 (0111) VPS