

Wireless

3920 Series XTS-5000 Alignment Software (390XOPT600)

AEROFLEX
A passion for performance.



Connect and Go!

Validate radios faster than ever with ease. Connect a single cable, press "Test and Align" and you are free to do more important things. This application is self contained within the 3920 and automatically performs the functions of radio alignment and verification to ensure optimal radio performance. The alignment software replaces the manual process of aligning the radio using a computer coupled with tuner software and an experienced operator.

Alignments

- Reference Oscillator
- High Power
- Mid Power
- Low Power
- Deviation Balance
- Deviation Limiting
- Front End Alignment (700/800 MHz band only)

Performance Tests

- P25 Modulation Fidelity
- P25 Symbol Deviation
- P25 RX BER

Note: Power alignment is available for Portable radios only.

Test Modes

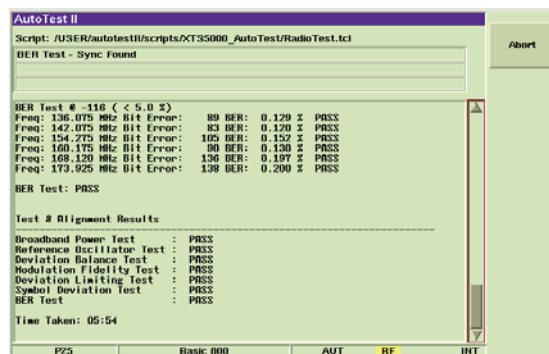
- Test Only - Provides pass / fail results on all test channels
- Align All - Performs all alignment functions without performance tests.
- Test and Align - Tests everything and performs alignment on failed items

Test and Align in as little as 6 minutes!

Supports the following radios:

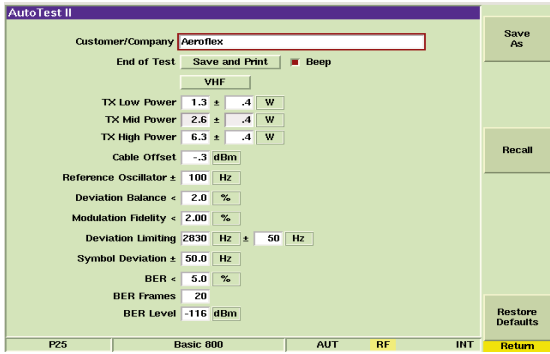
Portables: XTS-5000, XTS-2500, XTS-1500, XTS-4000, SSE-5000, MT-1500

Mobiles: XTL-5000, XTL-2500, XTL-1500



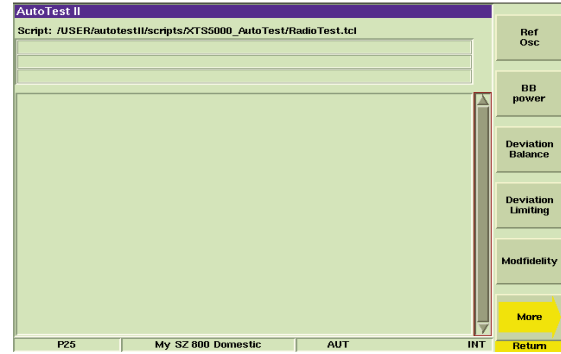
Summary of Test Results

A summary of test results are displayed at the end of the test to clearly indicate the pass/fail status of all tests. Test results can be automatically saved to the 3920's internal hard drive and or printed to a local or network printer. File names are automatically generated from the model/serial number information that is read from the radio coupled with a time/date stamp. Software and feature set information are also read and archived with the test result information automatically.



Specification Entry Screen

Specifications and target alignments can be adjusted and saved to the 3920's internal hard drive for specific customer requirements. The application allows entry for cable compensation to allow for more accurate power alignments as well as compensating the generator when making RX BER measurements.



Single Test Mode

Single test mode is a useful tool when only one or two parameters are to be adjusted. This allows for test, alignment or test and alignment on any of the individual tests.

Automation is only valuable if it based on accurate measurements. The 3920 offers unsurpassed measurement accuracy for all of the primary alignments of Power, Frequency and Deviation. This coupled with the ability to accurately profile digital performance characteristics like Modulation Fidelity, Symbol Deviation and RX BER ensures the end result will be a radio that has been optimized and will operate at peak performance.

Requirements:

3901, 3902 or 3920 with 390XOPT200 and 390XOPT218

USB to RS-232 converter

Motorola RKN4106A RS-232 to radio cable

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Our passion for performance is defined by three attributes represented by these three icons: solution-minded, performance-driven and customer-focused.