

Wireless

3920 Series ASTRO® Alignment Software (390XOPT600, 390XOPT601, 390XOPT602)

AEROFLEX
A passion for performance.



Connect and Go!

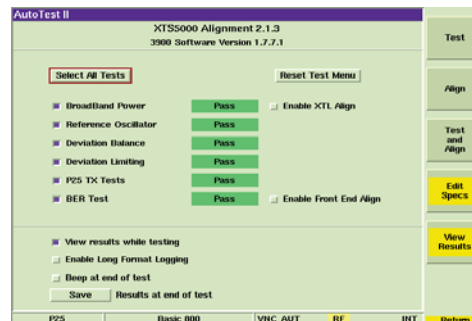
Validate radios faster than ever with ease. Connect a cable, press "Test and Align," and you are free to do more important things. This application is self-contained within the 3920 and automatically performs the functions of radio alignment and verification to ensure optimal radio performance. The alignment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

Alignments

- Reference Oscillator
- High Power
- Mid Power
- Low Power
- Deviation Balance
- Deviation Limiting
- Front End

Performance Tests

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

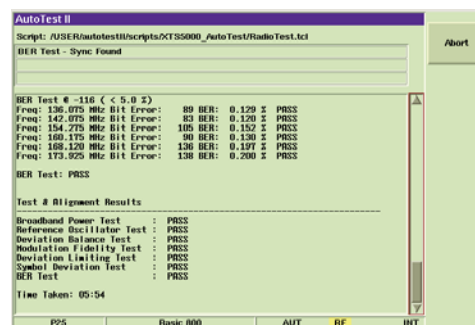


Versatile User Interface

Test Modes

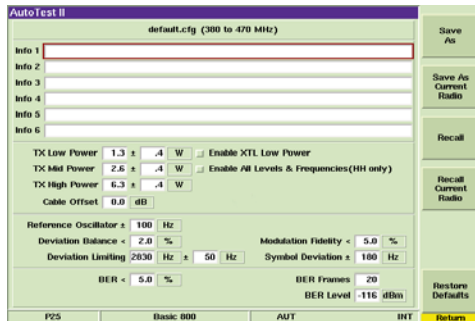
- Test - Provides pass/fail results on all selected tests for each test channel.
- Align - Performs complete alignment on all selected tests for each test channel.
- Test and Align - Performs test functions on all selected tests on each channel. Automatically re-aligns any channel on selected test that fails user-defined acceptance test specifications.

Test and Align in as little as 5 minutes!



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. Radio software versions 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.

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

Automation is only valuable when 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

Linux compatible USB to RS-232 converter

Serial Radio Programming cable

3920 Option 600 supports test and alignment for:

Portables: XTS[®]-5000, XTS[®]-2500, XTS[®]-1500, XTS[®]-4000, SSE[®]-5000, MT-1500

Mobiles: XTL[™]-5000, XTL[™]-2500, XTL[™]-1500, PM1500[™], Astro[®] Spectra Plus

Requires 390XOPT200 and 390XOPT218

3920 Option 601 supports test and alignment for:

XTS[®]-3000, Astro[®] Saber, Astro[®] Spectra.

Requires 390XOPT200 and 390XOPT218

3920 Option 602 – XTL[™] Power Alignment

Adds the capability for full power alignment of mobiles. Includes all current bias adjustments, power characterization and current limit settings for the XTL[™]-5000, XTL[™]-2500, XTL[™]-1500 and PM1500[™].

Typical alignment time is less than 4 minutes for a full power characterization alignment.

Requires 390XOPT200, 390XOPT218, 390XOPT053, AC24011 and 390XOPT600.

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