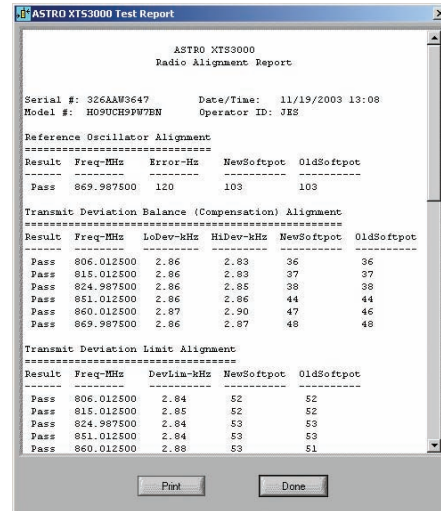
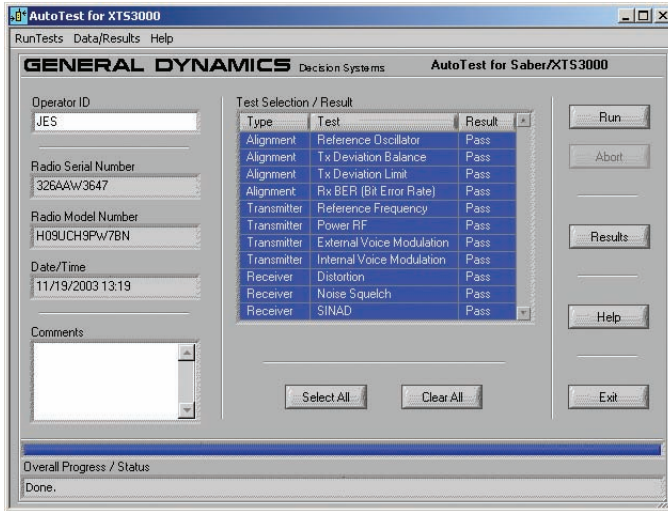


AutoTest

For Motorola Digital Radios



Automated Test and Alignment

General Dynamics is pleased to offer a powerful new tool for the R2600 line of communications system analyzers. AutoTest is an automated test and alignment application that runs on a standard PC. The PC automatically controls both the radio and the systems analyzer to alleviate most operator intervention. AutoTest performs all recommended factory alignment procedures, in addition to critical transmitter and receiver performance tests – *in a fraction of the time it takes to perform manually.*

Fast, accurate, easy to use

The AutoTest software application takes the guesswork out of aligning your Motorola digital radios. Simply connect the radio, select the tests and/or alignments you wish to perform from the AutoTest menu, and press “Run.” The software automatically “reads” the radio’s internal programming, and configures the analyzer, taking measurements as needed. If required, internal radio adjustments are then automatically performed to bring the radio into proper alignment. All measurement results, as well as initial and final softpot settings are stored for easy retrieval in a comma separated variable (CSV) format.

Explicit prompts, convenient help screens, and clear pass/fail indicators allow even non-technical personnel to fully test and align your radios – freeing the technicians to do actual repairs.

Benefits/Features

Significantly Reduced Test Times

- A typical radio alignment can be completed in less than 10 minutes.
- Program automatically “reads” the radio’s parameters and configures the analyzer to significantly reduce operator intervention.
- Pass/Fail indication reveals defective radios.

Easy to Use

- Standard Windows® interface makes AutoTest simple and intuitive to operate.
- No technical expertise required.
- Installs as part of the ToolKit applications suite.
- All results are automatically saved to disk and can be viewed and printed at any time.

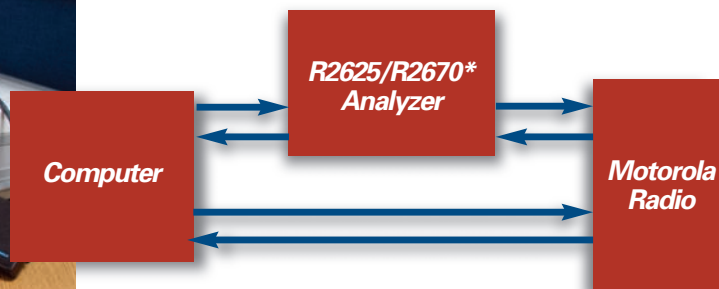
Accurate and Repeatable Results

- Utilizes the R2670 or R2625 Communication Systems Analyzer for dependable performance.
- Alignments and performance tests are performed according to manufacturer’s methods.
- Operator errors are minimized as parameters are automatically read from the radio.
- Adjustable test and alignment limits allow radios to be adjusted to tighter tolerances if desired.

Capabilities



AutoTest System Configuration



*P25 conventional equipped R2670

Tests/Alignments Performed

Alignments

- Reference Oscillator
- Transmitter Deviation Balance
- Transmitter Deviation Limit

Transmitter Tests

- Bit Error Rate (BER)
- Reference Frequency
- RF Output Power
- Voice Modulation, External
- Voice Modulation, Internal

Receiver Tests

- Rated Audio
- Distortion
- SINAD Sensitivity
- Noise Squelch

System Requirements

To automate your existing test configuration:

- R2670 or R2625 Communications System Analyzer (see minimum requirements).
- AutoTest software.
- RS232 Cable (9 pin to 25 pin) or USB to serial adapter to connect analyzer to PC.
- Windows®-compatible computer with an available serial or USB port, Windows® 95 or newer, 50 Mbytes free space on hard drive, and CDROM.

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Output

Program results are automatically stored to a log file in a readily searchable CSV format. All data is time stamped and includes the radio's serial and model numbers. For alignments, initial and final softpot values are also stored.

Ordering information

RVN5012	AutoTest for ASTRO® Saber® and XTS3000™
RVN5013	AutoTest for XTS5000™
RVN5016	AutoTest Value Pack (includes RVN5012 and RVN5013)
RVN5024	AutoTest for ASTRO® Spectra™
RVN5025	AutoTest for ASTRO® Spectra Plus™
RVN5026	AutoTest ASTRO® Spectra™ Value Pack (includes RVN5024 and RVN5025)
RVN5027	AutoTest Suite (includes RVN5016 and RVN5026)

Minimum Requirements for Communications System Analyzer

Model	Required options	Firmware
R2670A/B	CM701/CM713	V6.08
R2625A/B	None	V6.08

The AutoTest software is compatible with the R2670 and R2625 "A" models, but will operate at a reduced speed. These models contain an RS232 port with a maximum data rate of 9600 bps, whereas "B" models operate at speeds up to 115,200 bps. Overall test time is minimally affected.

Contact your General Dynamics sales representative for upgrade information for your communications system analyzer.

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