Recent investigations by the US military regarding EGI maintenance actions revealed that the majority of EGIs returned to depot are fully functional. These fully operational EGIs are being squawked off an aircraft resulting in high Re-Test OK (RTOK) rates. Minimal troubleshooting equipment is available and the current procedure is to return the EGI to the manufacturer for evaluation.

The EMT3500-3 diagnostic tool was designed to help identify failures, ensuring EGIs returned to the depot actually require repair. The EMT3500-3 is user-friendly field equipment that is easy for maintenance personnel to operate. Its graphical interface minimizes key strokes while CDNU-like inputs and readouts significantly reduce the learning curve.

**Key Features**

- Lightweight & Portable
- OFP Load and Verify
- Reprogram GEM
- Almanac Functions
- BIT Read and Initiation
- Data Reporting
CAST EMT3500-3

EGI Diagnostic Tool

System Description

- Size (H x W x D) 55” x 24” x 32”
- Power Required 110/220 VAC 50/60 Hz, 1200 W
- Operating System Windows, Lynx
- Keyboard, Pointing Device, and Color Monitor
- USB, CD-RW and Floppy Drive
- Rack Mounted System in an Enclosure
- Inertial Rate Table
- Appropriate Cabling
- Laser Printer

System Options

- GPS RAIM Operation Validation
- Synchro Output Verification
- MIL-PRF-28800 Class 3 Ruggedized Case

Currently Supported Platforms

- AH-64 Apache
- OH-58D Kiowa Warrior
- UH-60 Black Hawk
- A-10 Thunderbolt
- C-5 Galaxy
- E-3 Sentry (AWACS)
- E-767 (AWACS) Japan
- F-15 Eagle
- F-16 Fighting Falcon
- KC-135 Stratotanker

The EMT3500-3 loads and verifies OFP and GEM software via 1553 and extracts receiver data via RS-422

The CAST EMT3500-3 EGI Diagnostics Report

AH-64 Apache