

APPLICATION NOTE

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HEICO Component Repair Group is an FAA-approved repair station based in Miami, FL. They hold various FAA Parts Manufacturing Approvals (PMAs) authorizing them to repair and rebuild a wide range of electro-mechanical devices called Line Replaceable Units (LRUs) for transport aircraft operators.

LRU maintenance manuals specify various electrical QC tests such as resistance, capacitance, bond strength, continuity, dielectric strength (HiPot), etc.



PREVIOUS TEST METHOD

Traditionally, HEICO technicians use a variety of manual instruments like multimeters, ohm meters, micro ohm meters, hi-pot testers, bond testers, etc.

Often these tools are located at different work stations around the shop. The test technician must move the LRU under test to several different work stations and manually record test results.

Each tool requires annual calibration and the technicians have to be trained how to operate them.

MK SOLUTION & BENEFITS

HEICO now uses MK's AutoMeg D2500 which features 128 test points, 2500VDC and 1500VAC programmable power supplies and an EEM (External Excitation Module) option that enables them to stimulate active components such as solenoids, switches, relays, motors, lights, etc.

Automated test procedures

To date HEICO have created automated test procedures for over 25 different LRUs including:

- Engine FMU (fuel monitoring unit)
- HMU (hydro-mechanical unit) Fuel Controls
- Trim stabilizers
- Motorized valves
- Servo actuators
- Autopilot controllers, etc.

Time-saving

Time-saving is a clear and huge benefit. Testing time for just one LRU was reduced from 50 minutes to 8 minutes - an 85% reduction.

Other benefits

Automeg eliminates specialized operator training, reduces labor cost, minimizes shop travel time by replacing 4-5 different manual tools.



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