



Announcements

The next JSWAG/JFOWG Technical Interchange Meeting is scheduled for March 18-20, 2014 in Lexington Park, MD. Please contact a committee chair if interested in attending or send an email to jswag@navy.mil. DCO/VTC capability should be available for those who cannot travel.

Training Resources

- Aircraft Wiring Systems Awareness DVD- Defense Imagery PIN #806881.
- Fiber Optic Awareness DVD- Defense Imagery PIN #806707.
- Joint Services Wiring Manual Maintenance Techniques DVD- Defense Imagery PIN #806994.
- MIL-HDBK-522- Guidelines for Inspection of Aircraft Wiring Interconnect Systems- <https://assist.daps.dla.mil>.
- MIL-HDBK-525- Electrical Wiring Interconnect System (EWIS) Integrity- <https://assist.daps.dla.mil>.

Newsletter Contact

JSWAG Coordinator
jswag@navy.mil

Handheld Aircraft Wire Tester (HAWT)/Test Leads

Troubleshooting aircraft wiring takes a huge leap forward with the fielding of the HAWT to sailors and marines. The HAWT is a rugged, portable, and extremely accurate Step Time Domain Reflectometer (TDR) capable of testing all types of aircraft wiring in cable harnesses: coax, twisted pair, and single-wire. The HAWT is outstanding in providing solutions to one of the toughest challenges to wiring diagnostics; namely distance to the wiring fault and fault characterization (open, short, or marginal path) displayed in inches and feet. The HAWT is fielded to and allowed at one per O-Level activity. To date, PMA-260 has delivered 201 HAWT units to the Fleet and 46 to FMS customers, with approximately 314 testers to be delivered in the 3rd and 4th quarters of FY14. The HAWT kit comes complete with carrying case, hand-held TDR and accessories.

Info:

Handheld Aircraft Wire Tester

TTU-628/E

Part Number: 300-P000001

NSN: 6625-01-528-3348

Pub: NA 17-15-531 (1 Jul 2013)

Capabilities:

- Locate wiring faults quickly and with superb accuracy
- Read any cable's impedance and loop resistance
- Automatically calibrates to cable velocity and range setting
- See faults more clearly and in actual Ohms reading
- Cable List can be customized for specific aircraft or system
- Save, upload, print, or email traces for technical assistance
- Use software to create custom Cable Lists or TDR setups
- Two methods to determine unknown cable velocity
- Zoom on fault in both horizontal and vertical scales
- Quickly ID cable far end using tones
- Setup Wizard makes it easier for new users to learn
- Light weight, battery operated, portable, meets O-level use requirements.



Fig. 1. HAWT Display

HAWT from page 1

HAWT Includes:

- Step TDR with Belt Case, removable shoulder strap, and Quick Start Guide
- Hard Carrying Case - anti-FOD layout, accessory securing, and identification lid label
- Test Leads:
 - o 50 Ohm BNC coax, BNC-to-alligator clips and BNC to pins and sockets for #12, 14, 16, 18, 20, and 22 sizes.
- AC Adapter - alternate power source
- USB Cable - A-to-mini B for PC connection
- Software: ETDR PC Vision™ (included in kit)
- CD with Technical Manual and Computer Based Training PPT
- Transit Case:
 - o Size: 9.7 x 15.2 x 7.7 inches
 - o Weight: 14lbs with TDR and all accessories



Fig. 2 & 3. HAWT in use on aircraft during test/evaluation period.

Electrical Connector Test Leads

JSWAG action chit # 747, requested information on test probe kits that could be used with a digital multi-meter (DMM) to test electrical connectors without damaging the connector pins. The NA 01-1A-505-1 was updated (in WP 002 00, table 2) to include a Multi-Pin Connector Test Lead Kit (p/n: 129439, NSN: 6625-01-618-8987, CAGE: 44D61).

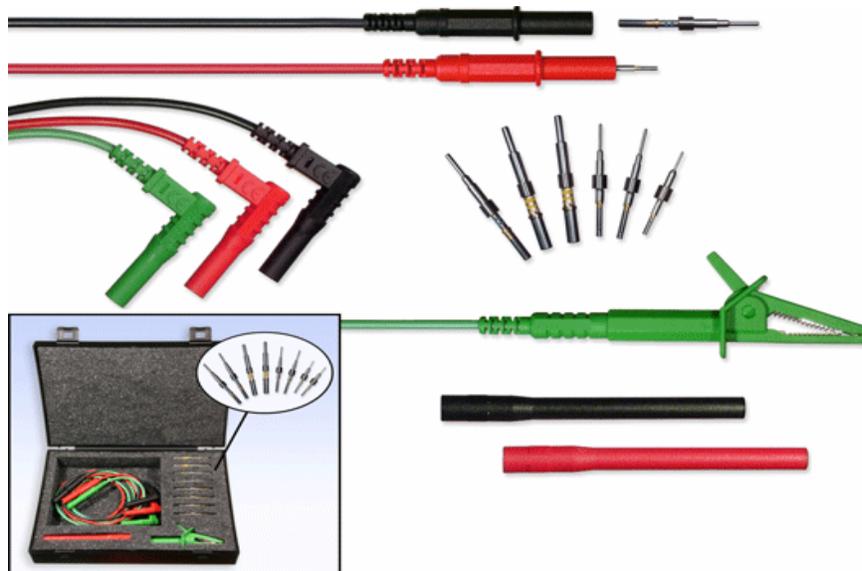


Fig. 4. Test Lead Kit