Selection Guide

VIAVI
Military Test Solutions for Radio and Avionics Systems

Improving your operational efficiency with faster on-site test solutions.
Radio Test

3515 Series Portable Radio Test Set

3515AR Portable Radio Communications Test Set
- NSN: 6625-01-572-6346
- Includes spectrum analyzer, oscilloscope and test script language for automating tests, incorporating test instructions, data collection, etc.
- Test scripts available for radios and systems, including PRC-117F, PRC-148, fixed-wing and rotary-aircraft, vehicles and data radios

3515N Portable Radio Communications Test Set
- NSN: 6625-01-538-0285
- USMC specific configuration

3515ARM Airborne Radio Maintenance System
- NSN: 6625-01-617-3401
- 3515AR + rugged transit case + airborne maintenance kit
- Includes VSWR script for rotary aircraft

3515AR-EP Portable Radio Communications Test Set
- NSN: 6625-01-538-0285
- Includes a test script for EPLRS radio test

3515LSR Life Support Radio Test System
- The 3515LSR System is comprised of the combination of the 3515AR PLUS the LSR Kit
- NSN: 6625-01-572-6346 (3515AR Radio Test Set)
- NSN: 6625-01-624-2023 (LSR Kit including Cables, Software, and RF Chamber)
- Purchase both NSN items for a complete system, or only the LSR Kit if you already have the 3515AR
- CPIN: 83C-3515ACCESSORYKIT-S-00A
- T.O. NUMBER: 33A1-3-628-1
- 3515LSR System replaces the RCTS-003B

3920N Analog/Digital Radio Test Platform

3920N Analog/Digital Radio Test Platform
- NSN: 6625-01-583-9945
- 2.7 GHz operation
- DMM, tracking generator, audio analyzer
- P25 test capabilities, including:
  - Conventional mode
  - P25 trunking, including explicit mode
  - AES encryption
  - XTS® and XTL™-3000/5000 AutoTest

7200B Configurable Automated Test Set

7200B Configurable Automated Test Set
- Automated testing of tactical radios
- 2.6 GHz frequency range
- Next-generation radio testing
**Avionics Test**

### Transponder, Interrogator, DME, TACAN and TCAS Test

**IFR6015 Flight Line Test Set**
- NSNs: 6625-01-578-4893, 6625-01-574-2423, 6625-01-601-4034*
- Transponder Modes 1, 2, 3A/C/S, TCAS I, II, E-TCAS and TACAN
- *Most current NSN, and is identified on unit serial tag

**APM-424(V)5 Interrogator/Transponder MK XIIA Mode 5 Test Set**
- NSN: 6625-01-583-2774 (Includes KIV-77/Option B adapter)
- Transponder Test Modes 1, 2, 3A, C, S (ELS/EHS), 4, Mode 5
- Interrogator Test Modes 1, 2, 3A, C, S, 4, Mode 5, TCAS, ETCAS
- Shipboard interrogation

**Factory Upgrade Kits**
- COMSEC adapters sold separately

<table>
<thead>
<tr>
<th>Fielded Unit</th>
<th>Upgrade To: APM-424(V)5</th>
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</thead>
<tbody>
<tr>
<td>APM-424(V)3</td>
<td>86738</td>
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<tr>
<td>APM-424(V)4</td>
<td>88573</td>
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<tr>
<td>TS-4530/UPM</td>
<td>86738</td>
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<tr>
<td>TS-4530-1/UPM</td>
<td>88572</td>
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<tr>
<td>TS-4542/UPM</td>
<td>86738</td>
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</tbody>
</table>

**IFF-45TS MK XIIA/TACAN Bench Test Set**
- NSN: 6625-01-617-2567 (with options 1, 2, 3, 6, 8, & 9)
- 6625-01-611-6485 (with options 2 & 8)
- DoD AIMS certified for MK XIIA IFF and Mode S performance (Levels 1 and 2)
- DO-260B compliant; ADS-B Out test capability

**IFF-7300S Series Automated Test System**
- NSN: 6625-01-612-8238 (IFF-7300S-02)
- Automated return-to-service testing (Level 1)
- Automated module level diagnostics (Level 2)
- Manual mode testing using VIAVI proprietary Virtual Panel application software.

**ADS-B INTEGRITY™ Test Application**
- ADS-B equipment installation verification
- Complete AC 20-165B fast and convenient reporting
- Eliminate post STC operational flights

### Nav/Comm Test

**IFR4000 Nav/Comm Test Set**
- NSN: 6625-01-516-4656
- Tests VOR, ILS, Marker Beacon and VHF/UHF
- ELT software upgrade available*
- *NSN: 6625-01-553-1956 with ELT option installed

**IFR4000AR Nav/Comm Test Set**
- NSN: 6625-01-559-2384
- Contract#: W58RGZ-09-D-0007
- IFR4000 plus added protective cover
- ELT software upgrade available*
- *NSN: 6625-01-553-1956 with ELT option installed
Avionics Test

Fuel Quantity Test

PSD90-1C AC/DC Fuel Capacitance Test Set
NSN: 4920-01-510-5628
(F-16 fleet) 4920-01-528-2230 (non F-16 fleet)
• Tests any AC or DC capacitive system*

PSD60-1AF AC Capacitance Fuel Quantity Test Set
NSN: 6625-01-297-5305
• Tests any AC capacitive system*

*Aircraft-specific interface cables are required and must be purchased separately.

Radio Altimeter Test

ALT-8015 Military Radio Altimeter Flight Line Test Set
NSN: 6625-01-644-1512
• Tests military pulse radio altimeters
• Tests FMCW radio altimeters, including analog CDF types
• Direct-connect to UUT T/R or to installed system via antenna couplers

GPS Satellite Simulation

GPSG-1000 Portable Satellite Simulator
NSN: 6625-01-616-2712 (12 channel config)
• GPS signals simulated: L1, L1C, L2C, L5
• Galileo signals simulated: E1, E5, E5a, E5b
• Static and dynamic simulations via NMEA-0183 File Record and Playback

Antenna Couplers

VIAVI couplers provide reliable FAR Part 43 Appendix ‘F’ ERP and MTL testing in multi-path environments.

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>UC-584 Kit</td>
<td>112350 (single antenna)</td>
</tr>
<tr>
<td></td>
<td>112349 (dual antenna)</td>
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<tr>
<td>UC-584S Kit</td>
<td>142094 (included in UC-584 Kit)</td>
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<tr>
<td>F-15 IFF Kit</td>
<td>113532</td>
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<td>F-16 IFF Kit</td>
<td>140600</td>
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<td>GC-130 GPS Kit</td>
<td>141193</td>
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<tr>
<td>TC-201A Kit</td>
<td>140889</td>
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</table>

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