



CLEARED
For Open Publication

Jul 27, 2026

Department of War
OFFICE OF PREPUBLICATION AND SECURITY REVIEW

This Text Box will be removed when we get Pentagon
Approval for Distro A. This is not Distro A, until we
receive the approval



**JOINT SERVICES
WIRING ACTION
GROUP**

A Technician's Perspective

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AWTS TESTING

17 AUG 2026

SLIDES ONLY
NO SCRIPT PROVIDED

WHAT IS AWTS?

- AWTS stands for Automatic Wire Test Set. AWTS boxes is a group of analyzers with set configurations that was designed to meet requirements for deployable common test equipment that the US Air Force, US Navy, and US Marine Corps can use. publication NAVAIR 17-15W-1 & T.O. 33D7-28-34-1
- Designed to replace slow manual mode checks of the system.





Prepping & running on aircraft

Open C/B and Panels

No power on aircraft

Connect AWTs

Run test and interpolate data

Repair and retest.

REAL World !

Pros

- Time saving
- Save \$\$ (shotgun part)
 - VIA-179K
- Reduce “No fault found”
- Helps aging aircraft
 - Corrosion
- Configuration control

Cons

- Increase TIME in setup
- Heavy equipment
- Software quirks
- Training curve for new tech.
- Configuration control





Second test

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4.02.0031 * * * * * PASSED
* Circuit: P924A_B F7 to P924A_E F11 Test: CONTINUITY
* Stimulus: 0.010A Expected: <15.00ohm
* Schematic: 4D89029 REV K PITCH
* Result From To Measured
* PASSED P924A_B F7 ---> P924A_E F11 =9.733ohm

Continuity CTP FAILED
Circuit: P924A_B F7 to P924A_E F11 Test: CONTINUITY Certification
From: P924A_B F7 To: P924A_E F11

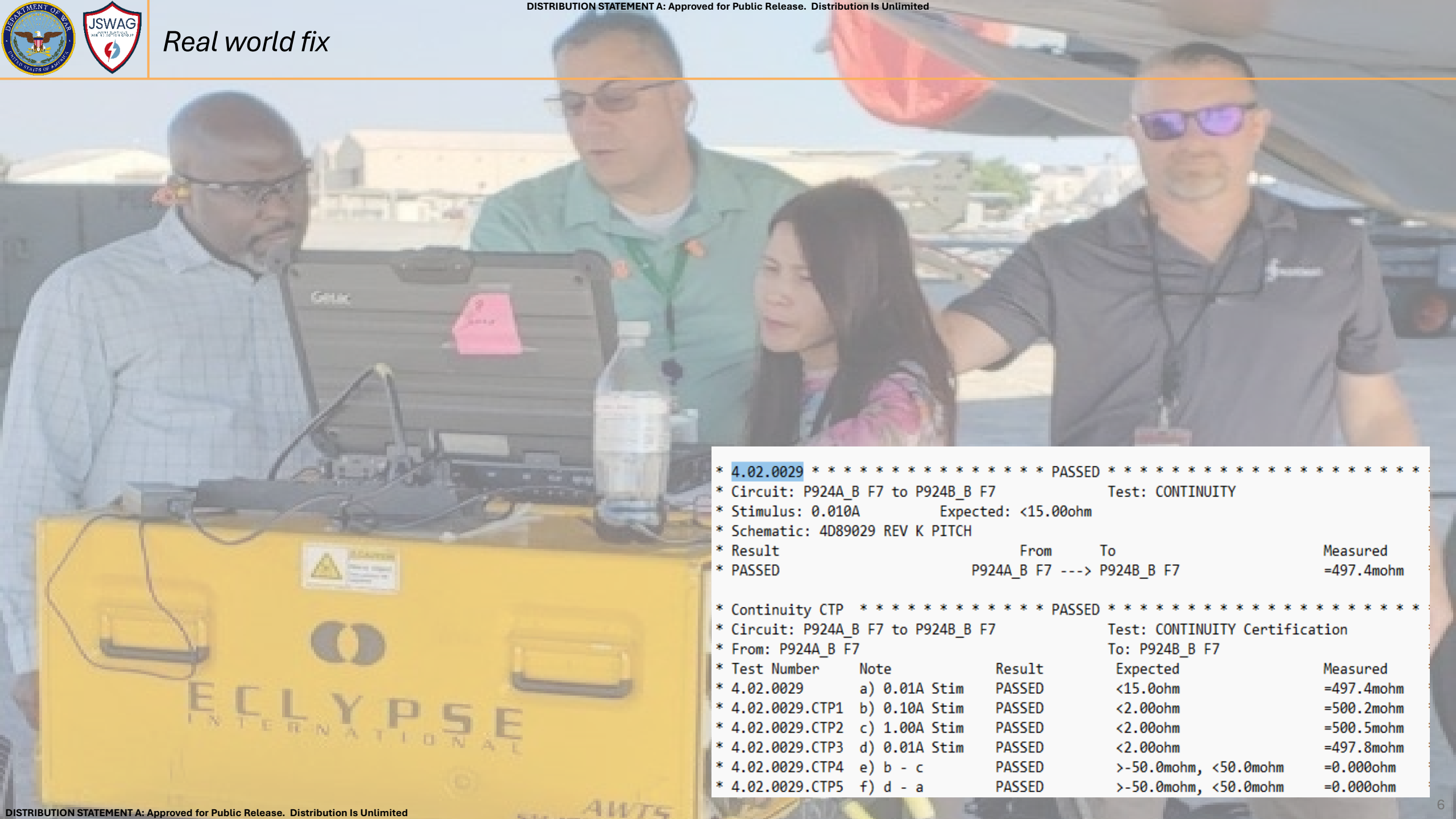
Test Number Note Result Expected Measured
4.02.0031 a) 0.01A Stim PASSED <15.0ohm =9.733ohm
4.02.0031.CTP1 b) 0.10A Stim DEGRADED-HIGH <2.00ohm =9.738ohm
4.02.0031.CTP2 c) 1.00A Stim DEGRADED-HIGH <2.00ohm =9.743ohm
4.02.0031.CTP3 d) 0.01A Stim DEGRADED-HIGH <2.00ohm =9.737ohm
4.02.0031.CTP4 e) b - c PASSED >-50.0mohm, <50.0mohm =-4.879mohm
4.02.0031.CTP5 f) d - a PASSED >-50.0mohm, <50.0mohm =-4.164mohm

P924A_B F7 | TB20DT 553 | 2C962H22-3
TB20DT 553 | J37Y 7 | 2C962K22-3
J37Y 7 | P37Y 7 | MATING CONNECTORS
P37Y 7 | J388B 9 | 2C962F22-3WHT
J388B 9 | P388B 9 | MATING CONNECTORS
P388B 9 | E1744A 63 | 2C962B22-3WHT
E1744A 63 | J446E 10 | 2C962C22-3WHT
J446E 10 | P67T 10 | MATING CONNECTORS
P67T 10 | P110E 1 | 2C962D22-3WHT
P110E 1 | J267A 1 | MATING CONNECTORS
J267A 1 | J20AR 24 | 2C962E22-3WHT
J20AR 24 | P20AR 24 | MATING CONNECTORS
P20AR 24 | P143Q 2 | 2C962G22-3
P143Q 2 | 202333955_2J4 2 | 202333955
202333955_2J4 2 | 202333955_1J6 4 | 202333955
202333955_1J6 4 | P946C 4 | 202333955
P946C 4 | P20AS 44 | 1C989G22-4BLU
P20AS 44 | J20AS 44 | MATING CONNECTORS
J20AS 44 | J77C 19 | 1C989A22-4BLU
J77C 19 | P77C 19 | MATING CONNECTORS
P77C 19 | P63T 41 | 1C989B22-4BLU
P63T 41 | J111C 41 | MATING CONNECTORS
J111C 41 | E1744A 58 | 1C989C22-4BLU
E1744A 58 | P435A 22 | 1C989D22-4BLU
P435A 22 | J435A 22 | MATING CONNECTORS
J435A 22 | P20AW 25 | 1C989F22-4BLU
P20AW 25 | J20AW 25 | MATING CONNECTORS
J20AW 25 | P924A_E F11 | 1C989E22-4BLU

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Real world fix



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* 4.02.0029 * * * * * PASSED * * * * *
* Circuit: P924A_B F7 to P924B_B F7          Test: CONTINUITY
* Stimulus: 0.010A          Expected: <15.00ohm
* Schematic: 4D89029 REV K PITCH
* Result                                From      To          Measured
* PASSED                                P924A_B F7 ---> P924B_B F7      =497.4mohm

* Continuity CTP * * * * * PASSED * * * * *
* Circuit: P924A_B F7 to P924B_B F7          Test: CONTINUITY Certification
* From: P924A_B F7                          To: P924B_B F7
* Test Number   Note          Result    Expected    Measured
* 4.02.0029     a) 0.01A Stim    PASSED    <15.0ohm    =497.4mohm
* 4.02.0029.CTP1 b) 0.10A Stim    PASSED    <2.00ohm    =500.2mohm
* 4.02.0029.CTP2 c) 1.00A Stim    PASSED    <2.00ohm    =500.5mohm
* 4.02.0029.CTP3 d) 0.01A Stim    PASSED    <2.00ohm    =497.8mohm
* 4.02.0029.CTP4 e) b - c      PASSED    >-50.0mohm, <50.0mohm =0.000ohm
* 4.02.0029.CTP5 f) d - a      PASSED    >-50.0mohm, <50.0mohm =0.000ohm
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