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Department of War
OFFICE OF PREPUBLICATION AND SECURITY REVIEW



V22 AWTs Test Results

2026 AWTs TIM 18-20 August

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Distribution: A



V22 AWTs Test Results



- V22 Phase AWTs Test List
- Certification Test Protocol (CTP) Defined
- Interpreting CTP Test Results
- Isolation
- Insulation
- Accuracy of Test Results



V22 Phase AWTs Test List

- All Phase AWTs Tests Programs Include:

- TAC Loopback*
- Hookup Instructions*
- Safe to Turn on Tests
- Unused Pins
- Backshell/Chassis Continuity
- Continuity
- **Continuity CTP**
- **Isolation**
- **Insulation**

*Includes Hookup Verification "Sniff Check"





Continuity Testing



- Indicates there is a conductive path between two points
- Standard OEM Tests are 0.5 Amp DC Current for all conductive paths
- Failed Continuity test represents an “open” circuit
- Expected return measurement is less than 2 ohms



Certification Test Protocol (CTP) Defined



- Continuity Certification Test Protocol utilizes a total of **six** measurements for a single continuity test to assess the integrity of the wire (conductor). CTP was intended for detecting flaws in wiring that can lead to intermittent discrepancies in flight.
- Designed to detect manufacturing defects
 - Improper contact crimp
 - Missing / Broken Strands
 - Corrosion
 - Contamination (Water, Oils, etc.)



Continuity CTP Testing



Continuity CTP Test Values

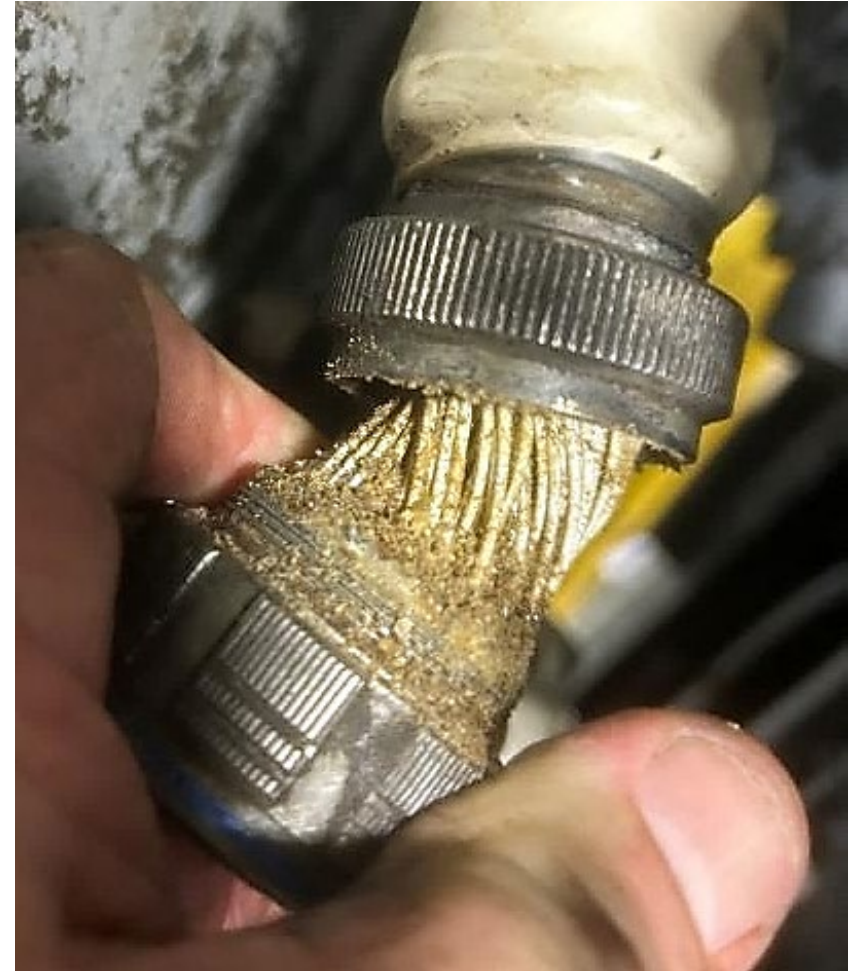
- a) 10mA Expected <2.00ohm (Basic Continuity Test)
- b) 100mA Expected <495mohm (typical)
- c) 1A Expected <495mohm (typical)
- d) 10mA Expected <510mohm (typical)
- e) b – c (linearity test) less than 50mohm difference
 - Missing strands will show an increased resistance at a higher stimulus
 - Under crimped contact will show a decreased resistance at a higher stimulus
- f) d – a (stability test) less than 50mohm difference
 - Failed Stability Test Indicates contamination or corrosion



Certification Test Protocol (CTP)



- Expected Values based on wire type, gauge and length
- Return Value Determines Degradation
 - Corrosion, Contamination, Recessed Contacts, improper crimp, missing/broken wire strands
- Degraded is not Failed
 - May not show as a system fault
 - Wire is within system specification
- Maintainers encouraged to investigate





CTP Results in Elite (On Screen)



Eclipse ELITE - [Results: Untitled]

File View Test Tools Help

Navigation icons: Back, Forward, Home, Search, etc.

Left Panel: File Explorer showing the test file structure.

- C:\ELITE Files\Test Files*.TE
- BDD
- ELITE Tools
- Extension Cables
- FADEC
- Flight Control System Harn
- V-22
 - V22 Phase
 - Extension_Loopback_Re
 - V22-FADEC_SET_A REV
 - V22-FADEC_SET_B REV
 - V22-FADEC_XTALK REV
 - V22-FLT_CNTL REV_4 8
 - V22-W952-901-376-831
 - V22-W954-901-376-832
 - V22-W963-901-376-825
 - V22-W971-901-376-826
 - V22-W972-901-376-826
 - V22-WIA68-901-075-63
 - V22-WIA69-901-005-81
 - V22-WIA72-901-005-81
 - V22-WIA75-901-075-63
 - V22 TPS Cables
 - V22 TPSs
 - W519
 - W539
 - W542
 - W567_(901-076-567-103)
 - W575_901-076-575-109&1
 - W611 - 901-076-611-109 a
 - W614
 - W616
 - W619
 - W667

Test Select Status Go To Id

For Help, press F1

Windows Taskbar: start, Eclipse ELITE - [Resu..., ELITE HELP, MAIN MENU - Paint, 9:46 AM

Main Display Area:

Stimulus: 0.010A Expected: <2.000ohm

Result From To Measured

PASSED 7631UCM50P6-Z ---> 4296UP146-L =127.7mohm

Continuity CTP ***** PASSED *****

Circuit: Wire 22AWG Test: Continuity Certification

From: 7631UCM50P6-Z T0: 4296UP146-L

Test Number	Note	Result	Expected	Measured
4.041	a) 0.01A Stim	PASSED	<2.00ohm	=127.7mohm
4.041.CTP1	b) 0.10A Stim	PASSED	<470mohm	=128.6mohm
4.041.CTP2	c) 1.00A Stim	PASSED	<470mohm	=128.7mohm
4.041.CTP3	d) 0.01A Stim	PASSED	<485mohm	=127.6mohm
4.041.CTP4	e) b - c	PASSED	>-50.0mohm, <50.0mohm	=0.000ohm
4.041.CTP5	f) d - a	PASSED	>-50.0mohm, <50.0mohm	=0.000ohm

4.042 ***** PASSED *****

Circuit: Wire 22AWG Test: Continuity

Stimulus: 0.010A Expected: <2.000ohm

Result From To Measured

PASSED 7631UCM50P6-a ---> 4296UP146-C =121.3mohm

Continuity CTP ***** PASSED *****

Circuit: Wire 22AWG Test: Continuity Certification

From: 7631UCM50P6-a T0: 4296UP146-C

Test Number	Note	Result	Expected	Measured
4.042	a) 0.01A Stim	PASSED	<2.00ohm	=121.3mohm
4.042.CTP1	b) 0.10A Stim	PASSED	<470mohm	=122.0mohm
4.042.CTP2	c) 1.00A Stim	PASSED	<470mohm	=122.2mohm
4.042.CTP3	d) 0.01A Stim	PASSED	<485mohm	=121.5mohm
4.042.CTP4	e) b - c	PASSED	>-50.0mohm, <50.0mohm	=0.000ohm
4.042.CTP5	f) d - a	PASSED	>-50.0mohm, <50.0mohm	=0.000ohm

4.043 ***** PASSED *****

Circuit: Wire 22AWG Test: Continuity

Stimulus: 0.010A Expected: <2.000ohm

Result From To Measured

PASSED 7631UCM50P6-b ---> 4296UP146-W =308.1mohm



CTP Results in Elite (On Screen)



Eclipse ELITE - [Results: Untitled]

File View Test Tools Help

Navigation icons: Back, Forward, Home, Search, etc.

Left Panel: File Explorer showing the test file structure.

- C:\ELITE Files\Test Files*.TE
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- Flight Control System Harn
- V-22
 - V22 Phase
 - Extension_Loopback_Re
 - V22-FADEC_SET_A REV
 - V22-FADEC_SET_B REV
 - V22-FADEC_XTALK REV
 - V22-FLT_CNTL REV_4 8
 - V22-W952-901-376-831
 - V22-W954-901-376-832
 - V22-W963-901-376-825
 - V22-W971-901-376-826
 - V22-W972-901-376-826
 - V22-WIA68-901-075-63
 - V22-WIA69-901-005-81
 - V22-WIA72-901-005-81
 - V22-WIA75-901-075-63
 - V22 TPS Cables
 - V22 TPSs
 - W519
 - W539
 - W542
 - W567_(901-076-567-103)
 - W575_901-076-575-109&1
 - W611 - 901-076-611-109 a
 - W614
 - W616
 - W619
 - W667

Main Panel: Test Results for Wire 22AWG.

Test: Continuity Certification

Stimulus: 0.010A Expected: <2.000ohm

Result From To Measured

PASSED 7631UCM50P6-Z ---> 4296UP146-L =127.7mohm

Continuity CTP ***** PASSED *****

Circuit: Wire 22AWG Test: Continuity Certification

From: 7631UCM50P6-Z T0: 4296UP146-L

Test Number	Note	Result	Expected	Measured
4.041	a) 0.01A Stim	PASSED	<2.00ohm	=127.7mohm
4.041.CTP1	b) 0.10A Stim	PASSED	<470mohm	=128.6mohm
4.041.CTP2	c) 1.00A Stim	PASSED	<470mohm	=128.7mohm
4.041.CTP3	d) 0.01A Stim	PASSED	<485mohm	=127.6mohm
4.041.CTP4	e) b - c	PASSED	>-50.0mohm, <50.0mohm	=0.000ohm
4.041.CTP5	f) d - a	PASSED	>-50.0mohm, <50.0mohm	=0.000ohm

4.042 ***** PASSED *****

Circuit: Wire 22AWG Test: Continuity

Stimulus: 0.010A Expected: <2.000ohm

Result From To Measured

PASSED 7631UCM50P6-a ---> 4296UP146-C =121.3mohm

Continuity CTP ***** PASSED *****

Circuit: Wire 22AWG Test: Continuity Certification

From: 7631UCM50P6-a T0: 4296UP146-C

Test Number	Note	Result	Expected	Measured
4.042	a) 0.01A Stim	PASSED	<2.00ohm	=121.3mohm
4.042.CTP1	b) 0.10A Stim	PASSED	<470mohm	=122.0mohm
4.042.CTP2	c) 1.00A Stim	PASSED	<470mohm	=122.2mohm
4.042.CTP3	d) 0.01A Stim	PASSED	<485mohm	=121.5mohm
4.042.CTP4	e) b - c	PASSED	>-50.0mohm, <50.0mohm	=0.000ohm
4.042.CTP5	f) d - a	PASSED	>-50.0mohm, <50.0mohm	=0.000ohm

4.043 ***** PASSED *****

Circuit: Wire 22AWG Test: Continuity

Stimulus: 0.010A Expected: <2.000ohm

Result From To Measured

PASSED 7631UCM50P6-b ---> 4296UP146-W =308.1mohm

Test Select Status Go To Id

For Help, press F1

start Eclipse ELITE - [Resu... ELITE HELP MAIN MENU - Paint

NOT ACTIVE IDLE Ln 1025 CAP

9:46 AM



* 4.042 * * * * *						PASSED											
Circuit:	Wire 22AWG							Test:	Continuity								
Stimulus:	0.010A							Expected:	<2.000ohm								
Result								From	To	Measured							
PASSED								7631UCM50P6-a --->	4296UP146-C	=121.3mohm							
* Continuity CTP * * * * *						PASSED											
Circuit:	Wire 22AWG							Test:	Continuity Certification								
From:	7631UCM50P6-a							T0:	4296UP146-C								
Test Number	Note	Result				Expected				Measured							
4.042	a) 0.01A Stim	PASSED				<2.00ohm				=121.3mohm							
4.042.CTP1	b) 0.10A Stim	PASSED				<470mohm				=122.0mohm							
4.042.CTP2	c) 1.00A Stim	PASSED				<470mohm				=122.2mohm							
4.042.CTP3	d) 0.01A Stim	PASSED				<485mohm				=121.5mohm							
4.042.CTP4	e) b - c	PASSED				>-50.0mohm, <50.0mohm				=0.000ohm							
4.042.CTP5	f) d - a	PASSED				>-50.0mohm, <50.0mohm				=0.000ohm							



CTP Results in .txt File



```
* 4.042 * * * * * PASSED * * * * *
* Circuit: Wire 22AWG                      Test: Continuity
* Stimulus: 0.010A                      Expected: <2.000ohm
* Result                                From      To      Measured
* PASSED                                7631NCM51P6-a ---> 4296NP149-C      =132.1mohm

* Continuity CTP * * * * * PASSED * * * * *
* Circuit: Wire 22AWG                      Test: Continuity Certification
* From: 7631NCM51P6-a                      To: 4296NP149-C
* Test Number      Note      Result      Expected      Measured
* 4.042            a) 0.01A Stim PASSED      <2.00ohm      =132.1mohm
* 4.042.CTP1       b) 0.10A Stim PASSED      <495mohm      =136.0mohm
* 4.042.CTP2       c) 1.00A Stim PASSED      <495mohm      =135.8mohm
* 4.042.CTP3       d) 0.01A Stim PASSED      <510mohm      =132.3mohm
* 4.042.CTP4       e) b - c    PASSED      >-50.0mohm, <50.0mohm =0.000ohm
* 4.042.CTP5       f) d - a    PASSED      >-50.0mohm, <50.0mohm =0.000ohm
```



Degraded CTP Results in Elite (on Screen)



Eclipse ELITE - [Results: Untitled]

File Edit View Test Tools Window Help

Test... Status Go To Id

Execution File

NOT ACTIVE EDIT Ln 53

For Help, press F1

C:\ELITE Files\Test File

- contactor
- Contactor Testing
- ELITE Tools
- F18 AC Electrical S
- F18 Nose Landing
- juan
- MIL Handbook
- T-45
- uat selflean step l
- UUT Self-Learn
- V22-Phase

```
4.001 ***** PASSED *****
Circuit:                               Test: Continuity Backshell
Stimulus: 1.000A                       Expected: <5.000ohm
Result                                  From      To      Measured
PASSED                                4270NMA69P2-BS ----> 4296RJ175-BS    =1.685ohm

4.002 ***** PASSED *****
Circuit:                               Test: Continuity
Stimulus: 0.010A                       Expected: <2.000ohm
Result                                  From      To      Measured
PASSED                                4270NMA69P2-1 ----> 4296RJ175-1    =685.4mohm

* Continuity CTP * * * * * DEGRADED * * * * *
* Circuit: Wire 24AWG * * * * * Test: Continuity Certification * * * * *
* From: 4270NMA69P2-1 * * * * * To: 4296RJ175-1 * * * * *
* Test Number Note Result Expected Measured *
* 4.002 a) 0.01A Stim PASSED <2.00ohm =685.4mohm *
* 4.002.CTP1 b) 0.10A Stim DEGRADED-HIGH <565mohm =885.4mohm *
* 4.002.CTP2 c) 1.00A Stim DEGRADED-HIGH <565mohm =885.4mohm *
* 4.002.CTP3 d) 0.01A Stim PASSED <585mohm =5.400mohm *
* 4.002.CTP4 e) b - c PASSED >-50.0mohm, <50.0mohm =0.000ohm *
* 4.002.CTP5 f) d - a PASSED >-50.0mohm, <50.0mohm =0.000ohm *
*
* DEGRADED CONTINUITY *
* Review results for details *
*
* - Continuity Certification includes 5 tests *
* - CTP1 Tests with Stimulus = 0.1A *
* - CTP2 Tests with Stimulus = 1.0A *
* - CTP3 Tests with Stimulus = 0.01A *
* - CTP4 Tests resistance linearity (b - c) *
* - Measured resistance should not change *
* - between 0.10A and 1.00A stimulus *
* - b - c should be approximately 0 ohms *
* - CTP5 Tests resistance stability *
* - Repeat measurements with 0.01A stimulus *
* - should not change after 1A stimulus. *
* - d - a should be approximately 0 ohms *
*
* - These results indicate degraded continuity from 4270NMA69P2-1 to 4296RJ175-1. *
* - Inspect aircraft connectors for fluid/contamination/corrosion/ *
* - recessed contacts/improper crimps. *
* - It is strongly encouraged to clean the aircraft connector(s) *
* - and retest if this failure was not encountered on a previous run. *
*
4.003 ***** PASSED *****
Circuit: Wire 24AWG Test: Continuity
Stimulus: 0.010A Expected: <2.000ohm
Result From To Measured
```



Degraded CTP Results in .txt File



```
Continuity CTP DEGRADED
Circuit: Wire 22AWG Test: Continuity Certification
From: 7631NCM51P6-X To: 4296NP149-S
Test Number Note Result Expected Measured
4.040 a) 0.01A Stim PASSED <2.00ohm =1.003ohm
4.040.CTP1 b) 0.10A Stim DEGRADED-HIGH <495mohm =1.017ohm
4.040.CTP2 c) 1.00A Stim PASSED <495mohm =381.1mohm
4.040.CTP3 d) 0.01A Stim PASSED <510mohm =433.0mohm
4.040.CTP4 e) b - c DEGRADED-HIGH >-50.0mohm, <50.0mohm =635.4mohm
4.040.CTP5 f) d - a DEGRADED-HIGH >-50.0mohm, <50.0mohm =570.5mohm

DEGRADED CONTINUITY
Review results for details

- Continuity Certification includes 5 tests
- CTP1 Tests with Stimulus = 0.1A
- CTP2 Tests with Stimulus = 1.0A
- CTP3 Tests with Stimulus = 0.01A
- CTP4 Tests resistance linearity (b - c)
- Measured resistance should not change
- between 0.10A and 1.00A stimulus
- b - c should be approximately 0 ohms
- CTP5 Tests resistance stability
- Repeat measurements with 0.01A stimulus
- should not change after 1A stimulus.
- d - a should be approximately 0 ohms

- These results indicate degraded continuity in measured path.
- Inspect aircraft connectors for fluid/contamination/corrosion/
- recessed contacts/improper crimps.
- It is strongly encouraged to clean the aircraft connector(s)
- and retest if this failure was not encountered on a previous run.
```



Interpreting Degraded CTP Results



Continuity CTP		DEGRADED		
Circuit: Wire 22AWG		Test: Continuity Certification		
From: 7631NCM51P6-X		To: 4296NP149-S		
Test Number	Note	Result	Expected	Measured
4.040	a) 0.01A Stim	PASSED	<2.00ohm	=1.003ohm
4.040.CTP1	b) 0.10A Stim	DEGRADED-HIGH	<495mohm	=1.017ohm
4.040.CTP2	c) 1.00A Stim	PASSED	<495mohm	=381.1mohm
4.040.CTP3	d) 0.01A Stim	PASSED	<510mohm	=433.0mohm
4.040.CTP4	e) b - c	DEGRADED-HIGH	>-50.0mohm, <50.0mohm	=635.4mohm
4.040.CTP5	f) d - a	DEGRADED-HIGH	>-50.0mohm, <50.0mohm	=570.5mohm
DEGRADED CONTINUITY				
Review results for details				
- Continuity Certification includes 5 tests				
- CTP1	Tests with Stimulus = 0.1A			
- CTP2	Tests with Stimulus = 1.0A			
- CTP3	Tests with Stimulus = 0.01A			
- CTP4	Tests resistance linearity (b - c)			
-	Measured resistance should not change			
-	between 0.10A and 1.00A stimulus			
-	b - c should be approximately 0 ohms			
- CTP5	Tests resistance stability			
-	Repeat measurements with 0.01A stimulus			
-	should not change after 1A stimulus.			
-	d - a should be approximately 0 ohms			
- These results indicate degraded continuity in measured path.				
- Inspect aircraft connectors for fluid/contamination/corrosion/				
- recessed contacts/improper crimps.				
- It is strongly encouraged to clean the aircraft connector(s)				
- and retest if this failure was not encountered on a previous run.				

Wire Passes Continuity

Increased Stimulus – Improved Continuity

Shows Degraded Linearity (b-c)

Typically, under crimped pins, contamination or corrosion.



Interpreting Degraded CTP Results



Continuity CTP		DEGRADED		
Circuit: Wire 22AWG		Test: Continuity Certification		
From: 7631NCM51P6-X		To: 4296NP149-S		
Test Number	Note	Result	Expected	Measured
4.040	a) 0.01A Stim	PASSED	<2.00ohm	=1.003ohm
4.040.CTP1	b) 0.10A Stim	DEGRADED-HIGH	<495mohm	=1.017ohm
4.040.CTP2	c) 1.00A Stim	PASSED	<495mohm	=381.1mohm
4.040.CTP3	d) 0.01A Stim	PASSED	<510mohm	=433.0mohm
4.040.CTP4	e) b - c	DEGRADED-HIGH	>-50.0mohm, <50.0mohm	=635.4mohm
4.040.CTP5	f) d - a	DEGRADED-HIGH	>-50.0mohm, <50.0mohm	=570.5mohm
DEGRADED CONTINUITY				
Review results for details				
- Continuity Certification includes 5 tests				
- CTP1	Tests with Stimulus = 0.1A			
- CTP2	Tests with Stimulus = 1.0A			
- CTP3	Tests with Stimulus = 0.01A			
- CTP4	Tests resistance linearity (b - c)			
-	Measured resistance should not change			
-	between 0.10A and 1.00A stimulus			
-	b - c should be approximately 0 ohms			
- CTP5	Tests resistance stability			
-	Repeat measurements with 0.01A stimulus			
-	should not change after 1A stimulus.			
-	d - a should be approximately 0 ohms			
- These results indicate degraded continuity in measured path.				
- Inspect aircraft connectors for fluid/contamination/corrosion/				
- recessed contacts/improper crimps.				
- It is strongly encouraged to clean the aircraft connector(s)				
- and retest if this failure was not encountered on a previous run.				

Wire Passes Continuity

Same Stimulus – Improved Continuity

Shows Degraded Stability (d-a)

Missing or broken strands.
Wire does not bleed of the energy



Isolation Test (Bulk Test)



- Ensures 2 points, or wires, have sufficient resistance between them preventing the flow of current
- Low voltage stimulus
- 0.25 VDC
- Dwell 0.05s during test and 0.5s between test
- Failed Isolation Examples
 - Chafed wire (wire to wire, wire to ground)
 - Stray wire strands
 - Defective connector insert/grommet



```

5.052.2 FAILED
Circuit: Wire 22AWG Test: Isolation Low Voltage Resistance
Stimulus: 0.250V Expected: >200.0kohm
Result From To Measured
FAILED - LOW 7740NSU53P1-A ---> BULKED =4.344ohm
FAILED ISOLATION LOW VOLTAGE RESISTANCE
- Review results for details
- Bulk Error Scan may appear below with more information.
- ISOLATION TESTS MUST PASS BEFORE HIGH VOLTAGE INSULATION TESTS WILL RUN.
- Repair as required by procedures.
- Tested Circuit:
- W711: 7631NCM51P6-B ---> 4296NJ63-25
- W712: 4296NP63-25 ---> 4296NP67-2
- W751: 4296NJ67-2 ---> 7740NSU53P1-A
Potential Failures:
From: 7740NSU53P1-A To: 7740NSU53P1-BS =4.406ohm
5.053.1 FAILED

```



Insulation Test (Bulk Test)



- Apply high voltage to one wire at a time and measuring for current leakage to other wires and harness/chassis ground (Backshell)
- Test Parameters
 - 500 VDC
 - >500 MOhm Return (TACs Only)
 - >350 MOhm Return (A/C Harnesses and WIAs)
- Required Parameters
 - Pass Continuity
 - Continuity CTP Degradation will not stop this test
 - Pass Isolation

[illegible]



Failed Insulation Test Result in .txt File



Each wire path is tested from both ends

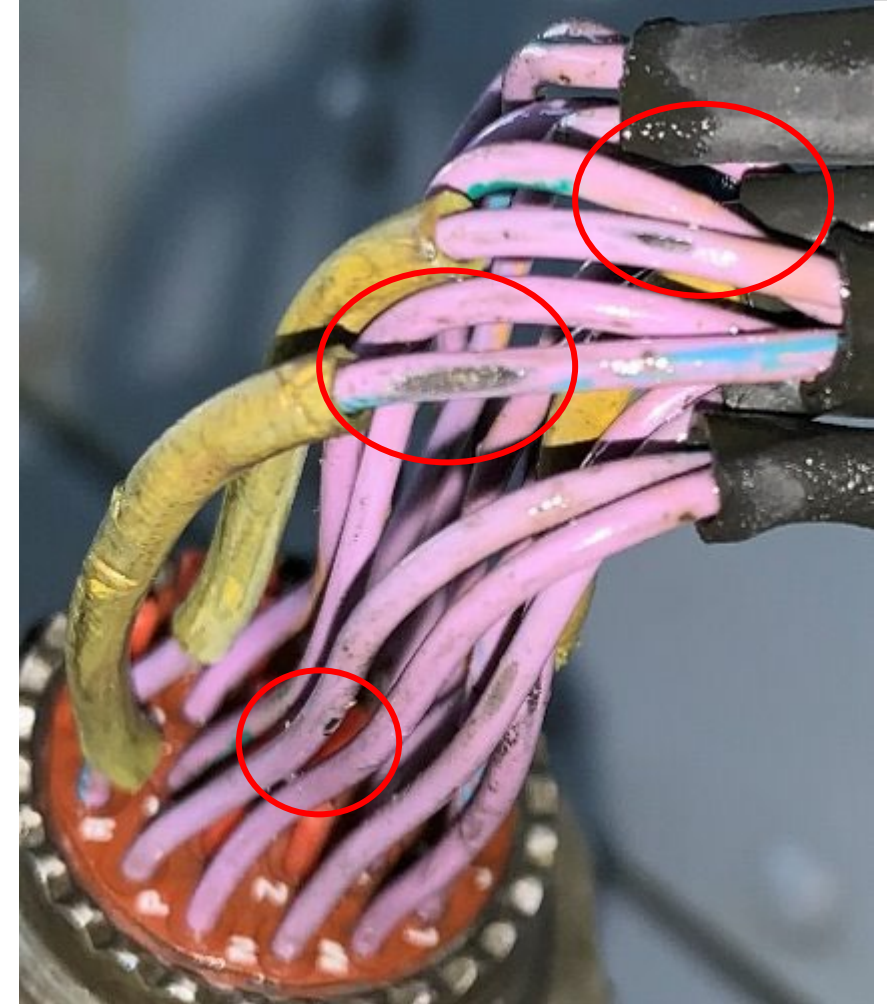
```
6.093.2 FAILED
Circuit: Wire 22AWG Test: Insulation High Voltage Resistance
Stimulus: 500.000V Expected: >350.0Mohm
Result From To Measured
FAILED - LOW 4270UWA72P2-8 ---> BULKED =248.0Mohm
FAILED INSULATION HIGH VOLTAGE RESISTANCE
- Review results for details
- Bulk Error Scan may appear below with more information.
- Hint: Resistances between 30Mohm and 500Mohm
- can be a result of dirty TACs or
- test set internal switch cards.
- Run "TAC Loopback" as required.
- Repair as required by procedures.
- Tested Circuit:
- W966: 4296TP174-121 ---> 4296TP176-14
- W539: 4296TJ176-14 ---> 4270UWA72P2-8
Potential Failures:
From: 4270UWA72P2-8 To: AirFrame-GND =286.7Mohm
From: 4270UWA72P2-8 To: 4296TP174-B5 =284.5Mohm
From: 4270UWA72P2-8 To: 4296TP174-19 =288.0Mohm
From: 4270UWA72P2-8 To: 4296TP174-28 =289.6Mohm
From: 4270UWA72P2-8 To: 4296TP174-30 =287.5Mohm
Maximum Scans Reached
```

```
6.093.1 FAILED
Circuit: Wire 22AWG Test: Insulation High Voltage Resistance
Stimulus: 500.000V Expected: >350.0Mohm
Result From To Measured
FAILED - LOW 4296TP174-121 ---> BULKED =263.5Mohm
FAILED INSULATION HIGH VOLTAGE RESISTANCE
- Review results for details
- Bulk Error Scan may appear below with more information.
- Hint: Resistances between 30Mohm and 500Mohm
- can be a result of dirty TACs or
- test set internal switch cards.
- Run "TAC Loopback" as required.
- Repair as required by procedures.
- Tested Circuit:
- W966: 4296TP174-121 ---> 4296TP176-14
- W539: 4296TJ176-14 ---> 4270UWA72P2-8
Potential Failures:
From: 4296TP174-121 To: AirFrame-GND =304.5Mohm
From: 4296TP174-121 To: 4296TP174-B5 =279.4Mohm
From: 4296TP174-121 To: 4296TP174-19 =267.6Mohm
From: 4296TP174-121 To: 4296TP174-28 =277.5Mohm
From: 4296TP174-121 To: 4296TP174-30 =272.9Mohm
Maximum Scans Reached
```



Failed Insulation Test (Continued)

- Wires Chafed to 90-degree Adapter
- Repaired with heat shrink
- Passed CTP
 - No Conductor damage or degradation
- Passed Isolation
 - No wire to wire or pin to pin continuity
- Failed 500V Insulation Test
 - Fluid/oil intrusion under heat shrink created a conductive path





Accuracy of Testing



- Test Results Accuracy
 - AWTs Alignment
 - Self Test
 - TAC Loopback
 - Hookup
 - Clean Connectors
 - Secure Connectors



Questions and Open Discussion





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