1. Operational Test

WARNING: BEFORE POWER IS SUPPLIED TO THE AIRCRAFT, MAKE CERTAIN THAT ELECTRICAL CIRCUITS UPON WHICH WORK IS IN PROGRESS ARE ISOLATED.

A. Reason for the Job

(1) To check operation of the cargo compartment temperature control system and interface with smoke detection system.

B. Equipment and Materials

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DESIGNATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1)</td>
<td>Electrical Ground Power Unit - 3-Phase, 115/200 V, 400 Hz</td>
</tr>
</tbody>
</table>

FED 801-815, 817-899

Referenced Procedures

- (Ref. 24-41-00, P. Block 301) AC External Power Control
- (Ref. 33-17-00, P. Block 501) Memorized Fault Annunciators
- (Ref. 31-51-00, P. Block 201) ECAM Sxstem

FED 816

Referenced Procedures

- (Ref. 24-41-00, P. Block 301) AC External Power Control
- (Ref. 32-00-00, P. Block 501) Landing Gear - General
- (Ref. 33-17-00, P. Block 501) Memorized Fault Annunciators
- (Ref. 31-51-00, P. Block 201) ECAM System
**FED ALL**

C. Procedure

(1) Job Set-Up

(a) Connect electrical ground power unit and energize aircraft electrical network (Ref. 24-41-00, P. Block 301).

(b) Make certain that electronics racks ventilation is correct.

(c) Make certain that the following circuit breakers are closed:

<table>
<thead>
<tr>
<th>PANEL</th>
<th>SERVICE</th>
<th>IDENT.</th>
<th>LOCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>FED 816</td>
<td>CARGO/SMOKE DET/WARN</td>
<td>46WH</td>
<td>A25</td>
</tr>
<tr>
<td>FED 816</td>
<td>CARGO/SMOKE DET/PWR/SUPPLY</td>
<td>35WH</td>
<td>A26</td>
</tr>
<tr>
<td>FED 816</td>
<td>AVIONICS/SMOKE DET/DETECTORS</td>
<td>2WA</td>
<td>F24</td>
</tr>
<tr>
<td>FED 816</td>
<td>AVIONICS/SMOKE DET/DETECTORS</td>
<td>1WA</td>
<td>F25</td>
</tr>
<tr>
<td>FED 816</td>
<td>COMPT TEMP/CARGO/ISOL/VALVES BULK</td>
<td>2HN</td>
<td>G28</td>
</tr>
<tr>
<td>FED 801-802, 805-806, 808-814, 817-899</td>
<td>AVIONICS/SMOKE DET/DETECTORS</td>
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<td>G28</td>
</tr>
<tr>
<td>FED 803-804, 807</td>
<td>CARGO/SMOKE DET/WARN</td>
<td>46WH</td>
<td>209/A25</td>
</tr>
<tr>
<td>FED 803-804, 807</td>
<td>CARGO/SMOKE DET/PWR/SUPPLY</td>
<td>35WH</td>
<td>209/A26</td>
</tr>
<tr>
<td>FED 803-804, 807</td>
<td>AVIONICS/SMOKE DET/DETECTORS</td>
<td>2WA</td>
<td>204/F24</td>
</tr>
<tr>
<td>FED 803-804, 807</td>
<td>AVIONICS/SMOKE DET/DETECTORS</td>
<td>1WA</td>
<td>204/F25</td>
</tr>
<tr>
<td>FED 803-804, 807</td>
<td>COMPT TEMP/CARGO/ISOL VALVES/FWD</td>
<td>40HN</td>
<td>203/G27</td>
</tr>
<tr>
<td>FED 803-804, 807</td>
<td>COMPT TEMP/CARGO/ISOL VALVES/BULK</td>
<td>2HN</td>
<td>203/G28</td>
</tr>
<tr>
<td>FED 815</td>
<td>AVIONICS/SMOKE DET/DETECTORS</td>
<td>2WA</td>
<td>204/F24</td>
</tr>
<tr>
<td>FED 815</td>
<td>AVIONICS/SMOKE DET/DETECTORS</td>
<td>1WA</td>
<td>204/F25</td>
</tr>
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<td>FED 815</td>
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<td>2HN</td>
<td>203/G28</td>
</tr>
<tr>
<td>FED 801-802, 805-806, 808-814, 816-899</td>
<td>AIR BLEED-COMPT TEMP/CARGO BULK/AUTO/CTL</td>
<td>S5HN</td>
<td>D55</td>
</tr>
<tr>
<td>PANEL</td>
<td>SERVICE</td>
<td>IDENT.</td>
<td>LOCATION</td>
</tr>
<tr>
<td>-------</td>
<td>---------</td>
<td>--------</td>
<td>----------</td>
</tr>
<tr>
<td>131VU</td>
<td>AIR BLEED-COMPT TEMP/CARGO BULK/</td>
<td>4HN</td>
<td>D56</td>
</tr>
<tr>
<td></td>
<td>MAN/CTL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>131VU</td>
<td>AIR BLEED-COMPT TEMP/CARGO COMPT/</td>
<td>37HN</td>
<td>E57</td>
</tr>
<tr>
<td></td>
<td>EXTRACT FANS/BULK</td>
<td></td>
<td></td>
</tr>
<tr>
<td>131VU</td>
<td>AIR BLEED-COMPT TEMP/DEMAND/TEMP/CTL</td>
<td>7HH</td>
<td>F56</td>
</tr>
</tbody>
</table>

**FED 803–804, 807, 815**

<table>
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<tr>
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<tbody>
<tr>
<td>131VU</td>
<td>AIR BLEED-COMPT TEMP/CARGO BULK/</td>
<td>5HN</td>
<td>315/D55</td>
</tr>
<tr>
<td></td>
<td>AUTO/CTL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>131VU</td>
<td>AIR BLEED-COMPT TEMP/CARGO BULK/</td>
<td>4HN</td>
<td>315/D56</td>
</tr>
<tr>
<td></td>
<td>MAN/CTL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>131VU</td>
<td>AIR BLEED-COMPT TEMP/CARGO/FWD/</td>
<td>42HN</td>
<td>315/D57</td>
</tr>
<tr>
<td></td>
<td>MAN/CTL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>131VU</td>
<td>AIR BLEED-COMPT TEMP/CARGO/FWD/</td>
<td>43HN</td>
<td>315/D58</td>
</tr>
<tr>
<td></td>
<td>AUTO/CTL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>131VU</td>
<td>AIR BLEED-COMPT TEMP/CARGO COMPT/</td>
<td>41HN</td>
<td>314/E54</td>
</tr>
<tr>
<td></td>
<td>EXTRACT FANS/FWD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>131VU</td>
<td>AIR BLEED-COMPT TEMP/CARGO COMPT/</td>
<td>37HN</td>
<td>314/E57</td>
</tr>
<tr>
<td></td>
<td>EXTRACT FANS/BULK</td>
<td></td>
<td></td>
</tr>
<tr>
<td>131VU</td>
<td>AIR BLEED-COMPT TEMP/DEMAND/TEMP/CTL</td>
<td>7HH</td>
<td>313/F56</td>
</tr>
</tbody>
</table>

**FED 801–802, 805–806, 808–814, 816–899**

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</thead>
<tbody>
<tr>
<td>132VU</td>
<td>LIGHTING/MAINT PANEL/ANN &amp; MFA</td>
<td>1WB</td>
<td>L78</td>
</tr>
<tr>
<td>132VU</td>
<td>LIGHTING/MAINT PANEL/ANN &amp; MFA</td>
<td>22WB</td>
<td>L79</td>
</tr>
<tr>
<td>132VU</td>
<td>LIGHTING/INT LT/ANN LT/TEST/MAN</td>
<td>1LP</td>
<td>L80</td>
</tr>
<tr>
<td>132VU</td>
<td>LIGHTING/INT LT/ANN LT/TEST/MAN</td>
<td>2LP</td>
<td>L81</td>
</tr>
<tr>
<td>132VU</td>
<td>LIGHTING/INT LT/ANN LT/TEST/MAN</td>
<td>149LP</td>
<td>L82</td>
</tr>
<tr>
<td>132VU</td>
<td>LIGHTING/INT LT/ANN LT/TEST/AUTO</td>
<td>153LP</td>
<td>M83</td>
</tr>
</tbody>
</table>

**FED 803–804, 807, 815**

<table>
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<th>IDENT.</th>
<th>LOCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>132VU</td>
<td>LIGHTING/MAINT PANEL/ANN &amp; MFA</td>
<td>1WB</td>
<td>324/L78</td>
</tr>
<tr>
<td>132VU</td>
<td>LIGHTING/MAINT PANEL/ANN &amp; MFA</td>
<td>22WB</td>
<td>324/L79</td>
</tr>
<tr>
<td>132VU</td>
<td>LIGHTING/INT LT/ANN LT/TEST/MAN</td>
<td>1LP</td>
<td>324/L80</td>
</tr>
<tr>
<td>132VU</td>
<td>LIGHTING/INT LT/ANN LT/TEST/MAN</td>
<td>2LP</td>
<td>324/L81</td>
</tr>
<tr>
<td>132VU</td>
<td>LIGHTING/INT LT/ANN LT/TEST/MAN</td>
<td>149LP</td>
<td>324/L82</td>
</tr>
<tr>
<td>132VU</td>
<td>LIGHTING/INT LT/ANN LT/TEST/AUTO</td>
<td>153LP</td>
<td>323/M83</td>
</tr>
</tbody>
</table>
FED ALL

(d) Start ECAM system (Ref. 31-51-00, P. Block 201)

(e) Test FANS MONITOR MFAs (Ref. 33-17-00, P. Block 501).

FED 801-802, 805-806, 808-814, 816-899

(2) Test

(a) Test operation of BULK cargo compartment isolation valve 19HN, extraction fan 30HN, and FANS MONITOR MFA 8HN.

1) Initial conditions:
On COMPT TEMP panel 437VU:
- BULK CARGO temperature selector switch 14HN is in MAN position.
- BULK CARGO/ISOL VALVE pushbutton switch 6HN is released OFF.
On maintenance panel 472VU:
- ANN LT toggle switch 2WB is in READ position.

2) Perform test.

(2)

FED 803-804, 807, 815

Test

NOTE: Following tests apply for both FWD and BULK cargo compartments. Component FINs for FWD compartment are shown in brackets.

(a) Test operation of BULK (FWD) cargo compartment isolation valve 19HN (60HN), extraction fan 30HN (48HN), and FANS MONITOR MFA 8HN (57HN).

1) Initial conditions:
On COMPT TEMP panel 437VU:
- BULK CARGO (FWD CARGO) temperature selector switch 14HN (53HN) is in MAN position.
- BULK CARGO/ISOL VALVE (FWD CARGO/ISOL VALVE) pushbutton switch 6HN (52HN) is released OFF.
On maintenance panel 472VU:
- ANN LT toggle switch 2WB is in READ position.
2) Perform test.

<table>
<thead>
<tr>
<th>ACTION</th>
<th>RESULT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. On COMPT TEMP panel 437VU:</td>
<td>On COMPT TEMP panel 437VU:</td>
</tr>
<tr>
<td>- press ISOL VALVE pushbutton switch 6HN.</td>
<td>- OFF/R legend goes off.</td>
</tr>
<tr>
<td></td>
<td>- for duration of isolation valve flap movement, ISOL VALVE pushbutton switch FAULT legend comes on and then goes off.</td>
</tr>
<tr>
<td></td>
<td>On R ECAM display - AIR COND page:</td>
</tr>
<tr>
<td></td>
<td>- isolation valve opens,</td>
</tr>
<tr>
<td></td>
<td>- isolation valve color: green.</td>
</tr>
<tr>
<td></td>
<td>On maintenance panel 472VU:</td>
</tr>
<tr>
<td></td>
<td>- check that BULK/CARGO MFA does not come on.</td>
</tr>
<tr>
<td></td>
<td>- rotate and hold BULK CARGO temperature selector switch 14HN to MAN-HOT position until trim air valve flap position arrow remains stationary.</td>
</tr>
</tbody>
</table>
| | - AIR COND page, is between H and A310-300 AMM - CARGO COMPARTMENT TEMPERATURE CONTROL - ADJUSTMENT/TEST

Revision 18.1

Printed - Date: 12/06/12 Time:
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C, then release selector switch.

2. On circuit breaker panel 131VU:
   - at location E57 open
   - circuit breaker 37HN.

   On R ECAM display - AIR COND page:
   - trim air valve flap position arrow
     moves to C.

   On maintenance panel 472VU:
   - BULK/CARGO MFA comes on.
   - close circuit breaker 37HN.
   - BULK/CARGO MFA remains on.

3. On maintenance panel 472VU:
   - press MFA RESET pushbutton
     switch 20WB.

   - BULK/CARGO MFA goes off.

4. On COMPT TEMP panel 437VU:
   - release ISOL VALVE
     pushbutton switch 6HN.

   On COMPT TEMP panel 437VU:
   - OFF/R legend comes on.
   - for duration of isolation valve
     flap movement, ISOL VALVE pushbut-
     ton switch FAULT legend comes on
     and then goes off.

   On R ECAM display - AIR COND page:
   - isolation valve closed,
   - isolation valve color: amber.

   On maintenance panel 472VU:
   - check that BULK/CARGO MFA does
     not come on.
1. On COMPT TEMP panel 437VU:
   - press ISOL VALVE pushbutton switch 6HN (52HN).
   - for duration of isolation valve flap movement, ISOL VALVE pushbutton switch FAULT legend comes on and then goes off.
   - Off/R legend goes off.
   - isolation valve opens,
   - isolation valve color: green.
   - check that BULK/CARGO (FWD/CARGO) MFA does not come on.
   - rotate and hold BULK CARGO (FWD CARGO) temperature selector switch 14HN (53HN) to MAN-HOT position until trim air valve flap position arrow remains stationary.
   On R ECAM display - AIR COND page:
   - trim air valve flap position arrow, on R ECAM display - AIR COND page, is between H and C, then release selector switch.

2. On circuit breaker panel 131VU:
   - at location E57 open circuit
   - trim air valve flap position arrow
breaker 37HN. moves to C.

- (at location E54 open circuit breaker 41HN).

On maintenance panel 472VU:

- BULK/CARGO (FWD/CARGO) MFA comes on.

- close circuit breaker 37HN (41HN). BULK/CARGO (FWD/CARGO) MFA remains on.

3. On maintenance panel 472VU:

- press MFA RESET pushbutton switch 20WB. BULK/CARGO (FWD/CARGO) MFA goes off.

4. On COMPT TEMP panel 437VU:

On COMPT TEMP panel 437VU:

- release ISOL VALVE pushbutton switch 6HN (52HN).

- OFF/R legend comes on.

- for duration of isolation valve flap movement, ISOL VALVE pushbutton switch FAULT legend comes on and then goes off.

On R ECAM display - AIR COND page:

- isolation valve closed,

- isolation valve color: amber.

On maintenance panel 472VU:

- check that BULK/CARGO (FWD CARGO)
MFA does not come on.

FED 801–802, 805–806, 808–814, 816–899

(a) Carry out BITE-Test for cargo compartment temperature control system.

NOTE: Test equipment is located in avionics compartment at equipment rack 91VU.

1) Initial condition:
   On COMPT TEMP panel 437VU:
   - PACK VALVE 1 and 2 pushbutton switches 191HB and 189HB are pressed in.
   - BULK CARGO/ISOL VALVE pushbutton switch 6HN is pressed in.
   - BULK CARGO temperature selector switch 14HN is in AUTO position.
   - HOT AIR SUPPLY pushbutton switch 4HJ is pressed in.

2) Perform test.

<table>
<thead>
<tr>
<th>ACTION</th>
<th>RESULT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. At rack 91VU, on APU and pack temp demand controller 37HK:</td>
<td>On APU and pack temp demand controller 37HK:</td>
</tr>
<tr>
<td>- check that electrical power is available at APU and pack temp demand controller by pressing BITE READY/UNPLUG CABLE AFTER USE light,</td>
<td>- light comes on when pressed.</td>
</tr>
<tr>
<td>- make certain that BITE SWITCH is in position 1.</td>
<td></td>
</tr>
<tr>
<td>2. On circuit breaker panel 131VU:</td>
<td></td>
</tr>
<tr>
<td>- at location D55 open circuit breaker 5HN.</td>
<td></td>
</tr>
<tr>
<td>3. On BULK CARGO compt temp controller 15HN:</td>
<td></td>
</tr>
<tr>
<td>- remove BITE connector protective</td>
<td></td>
</tr>
</tbody>
</table>
4. On circuit breaker panel 131VU:

- at location D55 close circuit breaker 5HN.

5. On APU and pack temperature demand controller:

- press NO GO indicator light.

- place BITE SWITCH to positions 1 thru 12 in sequence, pausing at each position until either GO or NO GO light comes on.

```
NOTE : A NO GO light shows a failure in the cargo compartment temperature control system.
```

```
NOTE : Position 1 - Sum of outputs of pack scaling amplifiers is checked.
Position 2 - APU speed demand signal for maximum cooling is checked.
Position 3 - APU speed demand signal for maximum heating is checked.
Position 4 - Bridge power supply is checked.
Position 5 - Amplifier output is checked.
Position 6 - Drives actuator in more heat direction.
Position 7 - Overrides bridge output with signal to produce maximum cooling output.
Position 8 - Overrides bridge output with signal to produce maximum heating output.
Position 9 - Overrides bridge output to produce a 'nulled' output.
Position 10 - Output of bridge is checked.
Position 11 - Output of bridge is checked.
Position 12 - Selector output signal is checked.
```

- return BITE SWITCH to position 1.
6. On circuit breaker panel 131VU: On APU and pack temperature demand controller:
   - at location D55 open circuit breaker 5HN.
   - BITE READY/UNPLUG CABLE AFTER USE and GO indicator lights go off.

7. On BULK CARGO compt temp controller 15HN:
   - disconnect test cable and secure to dummy connector 103VC.
   - secure protective cap.

8. On circuit breaker panel 131VU:
   - at location D55 close circuit breaker 5HN.

FED 815

(b) Carry out BITE-Test for cargo compartment temperature control system.

NOTE: Test equipment is located in avionics compartment at equipment rack 91VU.

1) Initial conditions:
   On COMPT TEMP panel 437VU:
   - PACK VALVE 1 and 2 pushbutton switches 191HB and 189HB are pressed in.
   - BULK CARGO/ISOL VALVE (FWD CARGO/ISOL VALVE) pushbutton switch 6HN (52HN) is pressed in.
   - BULK CARGO (FWD CARGO) temperature selector switch 14HN (53HN) is in AUTO position.
   - HOT AIR SUPPLY pushbutton switch 4HJ is pressed in.

2) Perform test.

<table>
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<tr>
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<th>RESULT</th>
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<tbody>
<tr>
<td>1. At rack 91VU, on APU and pack temp demand controller 37HK:</td>
<td>On APU and pack temp demand controller 37HK:</td>
</tr>
<tr>
<td>- check that electrical power is</td>
<td>- light comes on when pressed.</td>
</tr>
</tbody>
</table>
available at APU and pack temp demand controller by pressing BITE READY/UNPLUG CABLE AFTER USE light,
- make certain that BITE SWITCH is in position 1.

2. On circuit breaker panel 131VU:
- at location D55 open circuit breaker 5HN.
- (at location D58 open circuit breaker 43HN).

3. On BULK CARGO (FWD CARGO) compt temp controller 15HN (54HN):
- remove BITE connector cap.
- connect test cable of APU and pack temperature demand controller 37HK to BITE connector.

4. On circuit breaker panel 131VU: On APU and pack temp demand controller:
- at location D55 close circuit breaker 5HN.
- (at location D58 close circuit breaker 43HN).

5. On APU and pack temperature demand controller:
- press NO GO indicator light.
- place BITE SWITCH to positions 1 thru 12 in sequence, pausing at each position until either GO or NO GO light comes on.

NOTE: A NO GO light shows a failure in the cargo compartment.
temperature control system.

NOTE: Position 1 - Sum of outputs of pack scaling amplifiers is checked.
Position 2 - APU speed demand signal for maximum cooling is checked.
Position 3 - APU speed demand signal for maximum heating is checked.
Position 4 - Bridge power supply is checked.
Position 5 - Amplifier output is checked.
Position 6 - Drives actuator in more heat direction.
Position 7 - Overrides bridge output with signal to produce maximum cooling output.
Position 8 - Overrides bridge output with signal to produce maximum heating output.
Position 9 - Overrides bridge output to produce a 'nulled' output.
Position 10 - Output of bridge is checked.
Position 11 - Output of bridge is checked.
Position 12 - Selector output signal is checked.

- return BITE SWITCH to position 1.

6. On circuit breaker panel 131VU:
   On APU and pack temperature demand controller:
   - at location D55 open
   - BITE READY/UNPLUG CABLE AFTER use and go indicator lights go off.
   - (at location D58 open circuit breaker 5HN).

7. On BULK CARGO (FWD CARGO) COMPT temp controller 15HN (54HN):
   - disconnect test cable and secure to dummy connector 103VC.
   - Secure protective cap.

8. On circuit breaker panel 131VU:
   - at location D55 close circuit breaker 5HN.
   - (at location D58 close circuit breaker 43HN).
(b) Carry out BITE-Test for cargo compartment temperature control system.

**NOTE:** Test equipment is located in avionics compartment at equipment rack 91VU.

1) **Initial conditions:**
   On COMPT TEMP panel 437VU:
   - PACK VALVE 1 and 2 pushbutton switches 191HB and 189HB are pressed in.
   - BULK CARGO/ISOL VALVE (FWD CARGO/ISOL VALVE) pushbutton switch 6HN (52HN) is pressed in.
   - BULK CARGO (FWD CARGO) temperature selector switch 14HN (53HN) is in AUTO position.
   - HOT AIR SUPPLY pushbutton switch 4HJ is pressed in.

2) **Perform test.**

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<td>1. At rack 91VU, on APU and pack temp demand controller 37HK:</td>
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<td>- check that electrical power is available at APU and pack temp demand controller by pressing BITE READY/UNPLUG CABLE AFTER USE light,</td>
<td>- light comes on when pressed.</td>
</tr>
<tr>
<td>- make certain that BITE SWITCH is in position 1.</td>
<td></td>
</tr>
<tr>
<td>2. On circuit breaker panel 131VU:</td>
<td></td>
</tr>
<tr>
<td>- at location D55 open circuit breaker 5HN.</td>
<td></td>
</tr>
<tr>
<td>- (at location D58 open circuit breaker 43HN).</td>
<td></td>
</tr>
<tr>
<td>3. On BULK CARGO (FWD CARGO) compt</td>
<td></td>
</tr>
</tbody>
</table>
temp controller 15HN (54HN):
- remove BITE connector cap.
- connect test cable of APU and pack temperature demand controller 37HK to BITE connector.

4. On circuit breaker panel 131VU: On APU and pack temp demand controller:
- at location D55 close circuit breaker 5HN. - BITE READY/UNPLUG CABLE AFTER USE and GO indicator lights come on.
- (at location D58 close circuit breaker 43HN).

5. On APU and pack temperature demand controller:
- press NO GO indicator light. - NO GO integral light comes on.
- place BITE SWITCH to positions 1 thru 12 in sequence, pausing at each position until either GO or NO GO light comes on.

NOTE : A NO GO light shows a failure in the cargo compartment temperature control system.

NOTE : Position 1 - Sum of outputs of pack scaling amplifiers is checked.
Position 2 - APU speed demand signal for maximum cooling is checked.
Position 3 - APU speed demand signal for maximum heating is checked.
Position 4 - Bridge power supply is checked.
Position 5 - Amplifier output is checked.
Position 6 - Drives actuator in more heat direction.
Position 7 - Overrides bridge output with signal to produce maximum cooling output.
Position 8 - Overrides bridge output with signal to produce maximum heating output.
Position 9 - Overrides bridge output to produce a 'nulled' output.
Position 10 - Output of bridge is checked.
Position 11 - Output of bridge is checked.
Position 12 - Selector output signal is checked.
- return BITE SWITCH to position 1.

6. On circuit breaker panel 131VU:
   - at location D55 open 5HN.
   - (at location D58 open circuit breaker 43HN).

7. On BULK CARGO (FWD CARGO) COMPT temp controller 15HN (54HN):
   - disconnect test cable and secure to dummy connector 103VC.
   - Secure protective cap.

8. On circuit breaker panel 131VU:
   - at location D55 close circuit breaker 5HN.
   - (at location D58 close circuit breaker 43HN).

(c) Test operation of cold trim air valve 81HN (69HN).
   1) Initial conditions:
      ON COMPT TEMP panel 437VU:
      - BULK CARGO (FWD CARGO) temperature selector switch 14HN (53HN) is in MAN position.
      - BULK CARGO/ISOL VALVE (FWD CARGO/ISOL VALVE) pushbutton switch 6HN (52HN) is pressed in.
   2) Perform test.

<table>
<thead>
<tr>
<th>ACTION</th>
<th>RESULT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. On COMPT TEMP panel 437VU:</td>
<td>On R ECAM display - AIR COND page:</td>
</tr>
</tbody>
</table>
  - rotate and hold BULK CARGO | - hot trim air valve flap position |
(FWD CARGO) temp selector switch 14HN (53HN) in MAN-HOT position until hot trim air valve flap position arrow on R ECAM display - AIR COND page is between H and C, then release selector switch.

2. On CARGO COOL panel 444VU:
   - press BULK (FWD) pushbutton switch 80HN (78HN).
   - ON legend comes on.

On L ECAM display:
MEMO
BULK CARGO COOLING ON
(FWD CARGO COOLING ON) appears.
On R ECAM display - AIR COND page:
- cold trim air valve flap position arrow with scale appears.

3. ON COMPT TEMP panel 437VU:
   - rotate and hold BULK CARGO (FWD CARGO) temp selector switch 14HN (53HN) in MAN-COLD position.
   - release BULK CARGO (FWD CARGO) temp selector switch 14HN (53HN).
   - hot trim air valve flap position arrow moves to C, then cold trim air valve flap position arrow moves to open position.
   - both trim air valve flap position arrows remain stationary.

4. On CARGO COOL panel 444VU:
   - release BULK (FWD) pushbutton switch 80HN (78HN).
   - ON legend goes off.

On L ECAM display:
MEMO
BULK CARGO COOLING ON
(FWD CARGO COOLING ON) disappears.
On R ECAM display - AIR COND page:
- cold air valve flap position arrow and scale disappear.
5. On CARGO COOL panel 444VU:
   - after approx. 30 seconds, check FAULT legend of BULK (FWD) push-button switch 80HN (78HN).

6. On COMPT TEMP panel 437VU:
   - rotate and hold BULK CARGO (FWD CARGO) temp selector switch 14HN (53HN) in MAN-HOT position.
   - release BULK CARGO (FWD CARGO) temp selector switch.

FED 801–802, 805–806, 808–899

(b) Not applicable.

FED 801–802, 805–806, 808–814, 817–899

(c) Test operation of BULK cargo compartment isolation valve 19HN, trim air valve 20HN and extraction fan 30HN when SMOKE warning is simulated.
   1) Initial conditions:
      On COMPT TEMP panel 437VU:
      - BULK CARGO temperature selector switch 14HN is in MAN position.
      - BULK CARGO/ISOL VALVE pushbutton switch 6HN is pressed in.
      On maintenance panel 472VU:
      - ANN LT toggle switch 2WB is in READ position.
   2) Perform test.

FED 816

(c) Test operation of BULK cargo compartment isolation valve 19HN, trim air valve 20HN and extraction fan 30HN when SMOKE warning is simulated.
   1) Initial conditions:
      On COMPT TEMP panel 437VU:
      - BULK CARGO temperature selector switch 14HN is in MAN position.
- BULK CARGO/ISOL VALVE pushbutton switch 6HN is pressed in.

On maintenance panel 472VU:
- ANN LT toggle switch 2WB is in READ position.

On CARGO COMPT SMOKE DET panel 433VU:
- AFT/LOOP A 23WH, AFT/LOOP B 24WH, BULK/LOOP A 25WH and BULK/LOOP B 26WH pushbutton switches are pressed in.

2) Perform test.

FED 815

(d) Test operation of BULK (FWD) cargo compartment isolation valve 19HN (60HN), trim air valve 20HN (61HN) and extraction fan 30HN (48HN) when SMOKE warning is simulated.

1) Initial conditions:
On COMPT TEMP panel 437VU:
- BULK CARGO (FWD CARGO) temperature selector switch 14HN (53HN) is in MAN position.
- BULK CARGO/ISOL VALVE (FWD CARGO/ISOL VALVE) pushbutton switch 6HN (52HN) is pressed in.

On maintenance panel 472VU:
- ANN LT toggle switch 2WB is in READ position.

2) Perform test.

FED 803-804, 807

(d) Test operation of BULK (FWD) cargo compartment isolation valve 19HN (60HN), hot trim air valve 20HN (61HN), cold trim air valve 81HN (69HN) and extraction fan 30HN (48HN) when SMOKE warning is simulated.

1) Initial conditions:
On COMPT TEMP panel 437VU:
- BULK CARGO (FWD CARGO) temperature selector switch 14HN (53HN) is in MAN position.
- BULK CARGO/ISOL VALVE (FWD CARGO/ISOL VALVE) pushbutton switch 6HN (52HN) is pressed in.

On maintenance panel 472VU:
- ANN LT toggle switch 2WB is in READ position.
On CARGO COMPT SMOKE DET panel 433VU:
- FWD/LOOP A (21WH), FWD/LOOP B (22WH), AFT/LOOP A 23WH, AFT/LOOP B
- 24WH, BULK/LOOP A 25WH and BULK/LOOP B 26WH pushbutton switches are pressed in.

2) Perform test.

---

### ACTION RESULT
---

1. On COMPT TEMP panel 437VU: On R ECAM display - AIR COND page:
   - rotate and hold BULK CARGO (FWD CARGO) temp selector switch 14HN - trim air valve flap position
     (53HN) in MAN-HOT position until trim air valve flap position arrow,
     on R ECAM display - AIR COND page, is at H, then release selector switch.

2. On maintenance panel 471VU: On maintenance panel 471VU:
   - rotate ELEC COMPT & CARGO COMPT selector switch 16WA to legend comes on.
     CARGO COMPT/BULK/1 (CARGO COMPT/ FWD/1) position.
   - press and hold PTT pushbutton switch 52WA TEST
     On CARGO COMPT SMOKE DET panel switch 52WA.
     433VU, after approx. 2-3 second
delay:
- AFT & BULK/SMOKE (FWD/SMOKE)
  red warning light 38WH (39WH)
  comes on.

On main instrument panels 3VU
and 5VU, after 2-3 second delay:
- MASTER/WARNING lights flash.

In flight compartment:
- repetitive chime sounds.

On COMPT TEMP panel 437VU:
- BULK CARGO/ISOL VALVE (FWD CARGO/
  ISOL VALVE) pushbutton switch 6HN
  (52HN) FAULT legend comes on.

On RECAM display - AIR COND page:
- isolation valve closes and color
  changes to amber.
- trim air valve flap position arrow
  moves to position C.

On L ECAM display:
SMOKE
AFT & BULK CARGO COMPT SMOKE
(FWD CARGO COMPT SMOKE)

- AGENT 1 - DISCH

- LDG ELEVATION - 10,000 FT

appears.

- release PTT pushbutton

On CARGO COMPT SMOKE DET panel 433VU:

- AFT & BULK/SMOKE (FWD/SMOKE)

warning light goes off.

In flight compartment:

- repetitive chime stops.

On main instrument panels 3VU

and 5VU:

- MASTER/WARNING lights go off.

On L ECAM display:

SMOKE

AFT & BULK CARGO COMPT SMOKE

(FWD CARGO COMPT SMOKE)

- AGENT 1 - DISCH

- LDG ELEVATION - 10,000 FT

disappears.

3. On COMPT TEMP panel 437VU:

On COMPT TEMP panel 437VU:

- reset BULK CARGO/ISOL VALVE (FWD

CARGO/ISOL VALVE) pushbutton

- after isolation valve opens, ISOL

VALVE pushbutton switch FAULT
switch 6HN (52HN). legend goes off.

On R ECAM display - AIR COND page:

- isolation valve opens and color changes to green.
- trim air valve flap position arrow remains at position C.

4. On maintenance panel 471VU:

- rotate ELEC COMPT & CARGO COMPT selector switch 16WA to NORM/FLT position.
- PTT pushbutton switch 52WA TEST legend goes off.

FED 816

NOTE: Setting the A/C to simulated FLT CONFIG (Ref. 32-00-00, P. Block 501), the ECAM SMOKE warning will include LAND ASAP for second priority of the advisory.

1. On CARGO COMPT SMOKE DET panel 433VU:

- release BULK/LOOP B push-button switch 26WH.
- OFF legend comes on.

On main instrument panels 3VU and 5VU:
- MASTER/CAUTION lights come on.

In flight compartment:
- single chime sounds.
On L ECAM display:

LOOP

BULK COMPT LOOP B OFF

appears.

2. On COMPT TEMP panel 437VU:

- rotate BULK CARGO temperature selector switch 14HN to MAN - HOT position, hold until trim air valve flap position arrow remains stationary at H, color: green.

valve flap position arrow, on R ECAM display - AIR COND page, is at H, then release selector switch.

3. On maintenance panel 471VU:

- rotate ELEC COMPT & CARGO COMPT selector switch 16WA to CARGO COMPT/BULK position.

- place CARGO COMPT/LOOP TEST SEL toggle switch 48WH to LOOP A position.

4. On maintenance panel 471VU:

- press and hold PTT pushbutton switch 52WA.

- BULK/SMOKE red warning light 12WH and LOOP A legend 25WH come on.
In flight compartment:

- repetitive chime sounds.

On main instrument panels 3VU and 5VU:

- MASTER/WARNING lights flash.

On COMPT TEMP panel 437VU:

- BULK CARGO/ISOL VALVE pushbutton switch 6HN FAULT legend comes on.

On R ECAM display - AIR COND page:

- isolation valve closes and color changes to amber.

- trim air valve flap position arrow moves to position C.

On L ECAM display:

SMOKE

BULK CARGO COMPT SMOKE

- AGENT 1 - DISCH

- LDG ELEVATION - 10,000 FT appears.

- release PTT pushbutton switch. On CARGO COMPT SMOKE DET panel 433VU:

- BULK/SMOKE red warning light and
LOOP A legend go off.

On main instrument panels 3VU and 5VU:
- MASTER/WARNING lights go off.

In flight compartment:
- repetitive chime stops.

On L ECAM display:
SMOKE BULK CARGO COMPT SMOKE
- AGENT 1 - DISCH
- LDG ELEVATION - 10,000 FT disappears.

5. On COMPT TEMP panel 437VU:
- reset BULK CARGO/ISOL VALVE pushbutton switch 6HN (Release p/b sw and press again).
- after isolation valve opens, ISOL VALVE pushbutton switch FAULT legend goes off.

On R ECAM display - AIR COND page:
- isolation valve opens and color changes to green.
- trim air valve flap position arrow remains at position C.

6. On maintenance panel 471VU:

P.Bik EFFECTIVITY: FED ALL
- rotate ELEC COMPT & CARGO COMPT selector switch 16WA to NORM/FLT position.
- TEST legend of PTT pushbutton switch 52WA goes off.

7. On CARGO COMPT SMOKE DET panel 433VU:
- press BULK/LOOP B pushbutton switch 26WH.
- OFF legend goes off.
- MASTER/CAUTION lights go off.

On main instrument panels 3VU and 5VU:

On L ECAM display:
LOOP
BULK COMPT LOOP B OFF

disappears.

FED 801-802, 805-806, 808-814

1. On COMPT TEMP panel 437VU:
- rotate and hold BULK CARGO temp selector switch 14HN in MAN-HOT position, until trim air valve flap position arrow remains stationary at H, color: green

position arrow, on R ECAM display - AIR COND page, is at H,
then release selector switch.

2. On maintenance panel 471VU:
- trim air valve flap position arrow

P.Bik EFFECTIVITY: FED ALL

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- rotate ELEC COMPT & CARGO COMPT selector switch 16WA to CARGO COMPT/BULK/1 position.

- press and hold PTT pushbutton switch 52WA.

On CARGO COMPT SMOKE DET panel 433VU, after approx. 2 - 3 second delay:

- AFT & BULK/SMOKE red warning light 38WH comes on.

On main instrument panels 3VU and 5VU, after 2 - 3 second delay:

- MASTER/WARNING lights flash.

In flight compartment:

- repetitive chime sounds.

On COMPT TEMP panel 437VU:

- BULK CARGO/ISOL VALVE pushbutton switch 6HN FAULT legend comes on.

On R ECAM display - AIR COND page:

- isolation valve closes and color changes to amber.

- trim air valve flap position arrow moves to position C.

On L ECAM display:
SMOKE

AFT & BULK CARGO COMPT SMOKE

- AGENT 1 - DISCH

- LDG ELEVATION - 10,000 FT

appears.

- release PTT pushbutton

On CARGO COMPT SMOKE DET panel 433VU:

switch.

- AFT & BULK/SMOKE red warning light goes off.

In flight compartment:

- repetitive chime stops.

On main instrument panels 3VU and 5VU:

- MASTER/WARNING lights go off.

On L ECAM display:

SMOKE

AFT & BULK CARGO COMPT SMOKE

- AGENT 1 - DISCH

- LDG ELEVATION - 10,000 FT

disappears.

3. On COMPT TEMP panel 437VU:

- reset BULK CARGO/ISOL VALVE push-

On COMPT TEMP panel 437VU:

- after isolation valve opens,
button switch 6HN. ISOL VALVE pushbutton switch

FAULT legend goes off.

On R ECAM display – AIR COND page:
- isolation valve opens and color changes to green.
- trim air valve flap position arrow remains at position C.

4. On maintenance panel 471VU:
On maintenance panel 471VU:
- rotate ELEC COMPT & CARGO COMPT selector switch 16WA
- PTT pushbutton switch 52WA TEST legend goes off.
- to NORM/FLT position.

FED 803-804, 807

1. On CARGO COMPT SMOKE DET On CARGO COMPT SMOKE DET
panel 433VU:
panel 433VU:
- release BULK/LOOP B (FWD/LOOP B)
- OFF legend comes on.
pushbutton switch 26WH (22WH).

On main instrument panels 3VU and 5VU:
- MASTER/CAUTION lights come on.
In flight compartment:
- single chime sounds.
On L ECAM display:
LOOP

BULK COMPT LOOP B OFF

(FWD COMPT LOOP B OFF)

appears.

2. On COMPT TEMP panel 437VU: On R ECAM display - AIR COND page:

- rotate BULK CARGO (FWD CARGO) - hot trim air valve flap position
temperature selector switch 14HN arrow moves towards position H,
(53HN) to MAN-HOT position, hold stops and remains stationary,
until hot trim air valve, on color: green.

R ECAM display - AIR COND page, has at least half opened, then release selector switch.

3. On maintenance panel 471VU: On maintenance panel 471VU:

- rotate ELEC COMPT & CARGO COMPT - TEST legend of PTT pushbutton
selector switch 16WA to CARGO switch 52WA comes on.
COMPT/BULK (CARGO COMPT/FWD/1)

position.

- place CARGO COMPT/LOOP TEST

SEL toggle switch 48WH to

LOOP A position.

4. On maintenance panel 471VU: On CARGO COMPT SMOKE DET panel

- press and hold PTT pushbutton 433VU:
switch 52WA.

- BULK/SMOKE (FWD/SMOKE) red warning light 12WH (1WH) and LOOP A legend 25WH (21WH) come on.

In flight compartment:

- repetitive chime sounds.

On main instrument panels 3VU and 5VU:

- MASTER/WARNING lights flash.

On COMPT TEMP panel 437VU:

- BULK CARGO/ISOL VALVE (FWD CARGO/ISOL VALVE) pushbutton switch 6HN (52HN) FAULT legend comes on.

On R ECAM display - AIR COND page:

- isolation valve closes and color changes to amber.

- hot trim air valve flap position arrow moves to position C.

On L ECAM display:

SMOKE

BULK CARGO COMPT SMOKE

(FWD CARGO COMPT SMOKE)
- AGENT 1 - DISCH
- LDG ELEVATION - 10,000 FT

appears.

- release PTT pushbutton switch. On CARGO COMPT SMOKE DET panel

433VU:
- BULK/SMOKE (FWD/SMOKE) warning
  light and LOOP A legend go off.

On main instrument panels 3VU and 5VU:
- MASTER/WARNING lights go off.

In flight compartment:
- repetitive chime stops.

On L ECAM display:

SMOKE

BULK CARGO COMPT SMOKE
(FWD CARGO COMPT SMOKE)
- AGENT 1 - DISCH
- LDG ELEVATION - 10,000 FT

disappears.

5. On COMPT TEMP panel 437VU: On COMPT TEMP panel 437VU:

- reset BULK CARGO/ISOL VALVE (FWD - after isolation valve opens, ISOL
CARGO/ISOL VALVE) pushbutton switch VALVE pushbutton switch FAULT

6HN (52HN) (release p/b sw and legend goes off.
press again).

On R ECAM display - AIR COND page:
- isolation valve opens and color changes to green.
- hot trim air valve flap position arrow remains at position C.

6. On CARGO COOL panel 444VU:
- press BULK (FWD) pushbutton switch 80HN (78HN).

7. On COMPT TEMP panel 437VU:
- rotate BULK CARGO (FWD CARGO)
temperature selector switch 14HN (53HN) to MAN-COLD position, hold until cold trim air valve, on
R ECAM display - AIR COND page,
has at least half opened, then
release selector switch.

8. On maintenance panel 471VU:
- press and hold PTT pushbutton switch 52WA.

On CARGO COMPT SMOKE DET panel 433VU:
- BULK/SMOKE (FWD/SMOKE) red warning
light 12WH (1WH) and LOOP A legend

25WH (21WH) come on.

In flight compartment:
- repetitive chime sounds.

On main instrument panels 3VU and 5VU:
- MASTER/WARNING lights flash.

On COMPT TEMP panel 437VU:
- BULK CARGO/ISOL VALVE (FWD CARGO/ISOL VALVE) pushbutton
  switch 6HN (52HN) FAULT legend comes on.

On R ECAM display - AIR COND page:
- isolation valve closes and color changes to amber.
- cold trim air valve flap position arrow moves to 10 o'clock (closed) position.

On L ECAM display:
SMOKE
BULK CARGO COMPT SMOKE
(FWD CARGO COMPT SMOKE)
- AGENT 1 - DISCH

- LDG ELEVATION - 10,000 FT

appears.

- release PTT pushbutton

On CARGO COMPT SMOKE DET panel

switch.

433VU:

- BULK/SMOKE (FWD/SMOKE) red

warning light and LOOP A legend

go off.

On main instrument panels 3VU

and 5VU:

- MASTER/WARNING lights go off.

In flight compartment:

- repetitive chime stops

On L ECAM display:

SMOKE

BULK CARGO COMPT SMOKE

(FWD CARGO COMPT SMOKE)

- AGENT 1 - DISCH

- LDG ELEVATION - 10,000 FT

disappears.

9. On COMPT TEMP panel 437VU:

On COMPT TEMP panel 437VU:
- reset BULK CARGO/ISOL VALVE (FWD CARGO/ISOL VALVE pushbutton switch 6HN (52HN) (release p/b sw and press again. 

On R ECAM display - AIR COND page:
- isolation valve opens and color changes to green.
- cold trim air valve flap position arrow remains at 10 o'clock (closed) position.

10. On maintenance panel 471VU:
- rotate ELEC COMPT & CARGO COMPT selector switch 16WA to NORM/FLT position.

11. On CARGO COMPT SMOKE DET panel 433VU:
- press BULK/LOOP B (FWD/LOOP B) pushbutton switch 26WH (22WH).

On CARGO COMPT SMOKE DET panel 433VU:
- press BULK/LOOP B (FWD/LOOP B) pushbutton switch 26WH (22WH).

On main instrument panels 3VU and 5VU:
- MASTER/CAUTION lights go off.

On L ECAM display:

LOOP
12. On CARGO COOL panel 444VU:
  - release BULK (FWD) pushbutton
  - ON legend goes off.

FED 817-899

1. On COMPT TEMP panel 437VU:
  - rotate and hold BULK CARGO temp
  - trim air valve flap position arrow
  selector switch 14HN in MAN-HOT
  remains stationary at H, color:
  position, until trim air valve flap
  position arrow, on R ECAM
  display - AIR COND page, is at H,
  then release selector switch.

2. On maintenance panel 471VU:
  - rotate ELEC COMPT & CARGO COMPT
  - PTT pushbutton switch 52WA TEST
  selector switch 16WA to
  legend comes on.
  CARGO COMPT/BULK/1 position.
  - press and hold PTT pushbutton
  switch 52WA.
  433VU, after approx. 2 - 3 second
  delay:
  - AFT & BULK/SMOKE red warning
light 38WH comes on.

On main instrument panels 3VU and 5VU, after 2 – 3 second delay:

- MASTER/WARNING lights flash.

In flight compartment:

- repetitive chime sounds.

On COMPT TEMP panel 437VU:

- BULK CARGO/ISOL VALVE pushbutton switch 6HN FAULT legend comes on.

On R ECAM display - AIR COND page:

- isolation valve closes and color changes to amber.

- trim air valve flap position arrow moves to position C.

On L ECAM display:

SMOKE

AFT & BULK CARGO COMPT SMOKE

- AGENT 1 - DISCH

- LDG ELEVATION - 10,000 FT appears.

- release PTT pushbutton switch.

On CARGO COMPT SMOKE DET panel 433VU:

- AFT & BULK/SMOKE red warning
light goes off.

In flight compartment:
- repetitive chime stops.

On main instrument panels 3VU and 5VU:
- MASTER/WARNING lights go off.

On L ECAM display:

SMOKE

AFT & BULK CARGO COMPT SMOKE
- AGENT 1 - DISCH
- LDG ELEVATION - 10,000 FT

disappears.

3. On COMPT TEMP panel 437VU:

- after isolation valve opens, ISOL VALVE pushbutton switch
- reset BULK CARGO/ISOL VALVE pushbutton switch 6HN.

On R ECAM display - AIR COND page:
- isolation valve opens and color changes to green.
- trim air valve flap position arrow remains at position C.
4. On maintenance panel 471VU: On maintenance panel 471VU:
   - rotate ELEC COMPT & CARGO COMPT
   selector switch 16WA
   to NORM/FLT position.
   - PTT pushbutton switch 52WA TEST
   legend goes off.

FED 801−802, 805−806, 808−814, 816−899

(3) Close-Up
   (a) On maintenance panel 472VU, place ANN LT toggle
       switch 2WB in OFF position.
   (b) On ECAM control panel, release ECAM SGU 1 and 2
       pushbutton switches.
   (c) On COMPT TEMP panel 437VU, rotate BULK CARGO
       temperature selector switch 14HN to AUTO position.
   (d) Make certain that working area is clean and clear
       of tools and miscellaneous items of equipment.
   (e) De-energize aircraft electrical network and
       disconnect electrical ground power unit (Ref. 24-41-00, P. Block 301).

FED 803−804, 807, 815

(3) Close-Up
   (a) On maintenance panel 472VU, place ANN LT toggle
       switch 2WB in OFF position.
   (b) On ECAM control panel, release ECAM SGU 1 and 2
       pushbutton switches.
   (c) On COMPT TEMP panel 437VU, rotate BULK CARGO (FWD
       CARGO) temperature selector switch 14HN (53HN) to
       AUTO position.
   (d) Make certain that working area is clean and clear
       of tools and miscellaneous items of equipment.
   (e) De-energize aircraft electrical network and
       disconnect electrical ground power unit (Ref. 24-41-00, P. Block 301).