

PILATUS AIRCRAFT LTD, STANS, SWITZERLAND

SERVICE BULLETIN

PC-21

Service Bulletin No: 35-001 Ref No: 34

Modification No: EC-09-0544 ATA Chapter: 35

OXYGEN - ON-BOARD OXYGEN-GENERATING SYSTEM (OBOGS) DO THE MODIFICATION TO THE OBOGS WARNING CONFIGURATION

1. Planning Information

A. Effectivity

PC-21 aircraft MSN 109 thru MSN 127.

B. Concurrent Requirements

None.

C. Reason

(1) Problem

It has been discovered that not all BIT failures generate the correct warnings.

(2) Solution

This Service Bulletin will make sure that in future all BIT failures will be indicated correctly.

D. Description

This Service Bulletin gives the instructions and data necessary to:

- Do a modification to the OBOGS wiring in the aircraft
- Update the Line Test Equipment (LTE)
- Update the control logic in all the RIOCs to make sure the BIT fail function is not only displayed as the red OBOGS symbol on the MFD, but also shows a red OXY warning on the MFD and the DWP.

NOTE: The update to the LTE and the update to the control logic in all the RIOCs are not necessary if Service Bulletin 46-010 (Systems Integration and Display - Mission Computer - Replace the Open Systems Mission Computer (OSMC) and Update the Software) has been previously incorporated.

E. Compliance

Mandatory.

Required within the next 3 months after the effective date of this Service Bulletin.

F. Approval

The technical content of this Service Bulletin is approved under FOCA approved procedures.

PILATUS advises Operators/Owners to check with their local Airworthiness Authorities for any changes, local regulations or sanctions that may affect the embodiment of this Service Bulletin.

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G. Manpower

	Total
Preparation	0.45
Do the modification to the aircraft wiring	0.45
Do the procedure to set-up the programming equipment, PR600 (See Note 2)	0.25
Do the procedure to install the LTE package (See Note 2)	1.00
Do the procedure to install the LTE Configuration Files (See Note 2)	1.00
Do the procedure to load the updated configuration table in the RIOC 1 thru RIOC 4 (See Note 2)	1.50
Close up	1.00
TOTAL MAN-HOURS	6.25

- **NOTE 1:** Man-hours figures do not include the time required to cure sealants, paints and adhesives.
- **NOTE 2:** These Steps are not necessary if Service Bulletin 46-010 (Systems Integration and Display Mission Computer Replace the Open Systems Mission Computer (OSMC) and Update the Software) has been previously incorporated.

H. Weight and Balance

(1) Weight Change

Not affected.

(2) Moment Change

Not affected.

I. Electrical Load Data

Not changed.

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J. Software

The software for the RIOCs is updated from 546.04.21.013 Rev. 8 to 546.04.21.020 Rev. E.

K. References

Aircraft Maintenance Manual (AMM) 21-C-06-40-00-00A-055A-A, 21-C-21-00-00-00A-012A-A, 21-C-24-40-00-00A-331A-A, 21-C-24-40-00-00A-332A-A, 21-C-25-10-00-00A-040A-A, 21-C-35-00-00-00A-012A-A, 21-C-35-00-00-00A-344A-A, 21-C-35-40-00-00A-042A-A, 21-C-35-40-02-00A-520A-A, 21-C-35-40-02-00A-720A-A, 21-C-71-00-00-00A-012A-A, 21-C-95-00-00-00A-012A-A, 21-C-95-10-00-00A-520A-A, 21-C-95-10-00-00A-720A-A

L. Publications Affected

Aircraft Wiring Manual (AWM)

M. Interchangeability of Parts

Not applicable.

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2. Material Information

A. Material - Price and Availability

No modification kit is necessary to do this Service Bulletin.

Operators who require more information should contact:

PILATUS AIRCRAFT LTD,
MANAGER, INTEGRATED LOGISTIC SUPPORT
CH 6371 STANS, Tel: +41 41 619 66 30
SWITZERLAND Fax:+41 41 610 33 51

Operators are requested to advise Pilatus Aircraft Ltd. of the Manufacturer's Serial Number (MSN), the flying hours and landings of aircraft which are allocated for this Service Bulletin using the Service Bulletin Evaluation Form.

B. Material Necessary for Each Aircraft

(1) Material to be Procured

(a) These parts must be procured to accomplish this Service Bulletin:

NEW PART NO.	DESCRIPTION	OLD PART NO.	QTY	DISP. CODE	REMARKS
513.31.21.039 or 513.31.21.045	LTE CONFIGURATION FILES		1	-	Supplied on a CD by Pilatus
513.31.21.035 or 513.31.21.040	LTE INSTALLATION PACKAGE		1	-	Supplied on a CD by Pilatus

Disposition Codes: S - Return to Stores

(2) Operator Supplied Materials (Ref. AMM, 00-50-00-00A-013A-A)

MATERIAL NO.	DESCRIPTION	QTY	REMARKS
-	WIRE (AWG 24)	100mm	PILATUS P/N 919.79.41.301
-	CONTACT PIN	1	PILATUS P/N 971.75.17.903

C. Material Necessary for Each Spare

Not applicable.

D. Reidentified Parts

Not applicable.

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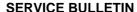




E. Tooling - Cost and Availability

NEW PART NO.	DESCRIPTION	QTY	REMARKS
513.31.21.004	LINE TEST EQUIPMENT (LTE) BASIC KIT RSAF	1	-
513.31.21.006	LTE SUPPORT EQUIPMENT RSAF	1	-
513.35.21.003	TEST SWITCH	1	-

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3. Accomplishment Instructions

WARNING: MAKE SURE THAT BOTH EJECTION SEATS HAVE THE SAFETY PINS INSTALLED IN THE SAFE FOR SERVICING LOCATIONS AND THAT THE CFS HAS THE SAFETY PIN INSTALLED IN THE SAFE POSITION BEFORE YOU GO INTO THE COCKPIT (REF. AMM, 21-C-95-00-00-00A-012A-A).

A. Preparation

- (1) Do the safety procedures for the oxygen system before you do work on the oxygen system (Ref. AMM, 21-C-35-00-00-00A-012A-A).
- (2) Remove the rear ejection seat (Ref. AMM, 21-C-95-10-00-00A-520A-A).
- (3) Remove the rear cockpit, lower-left rear-panel (Ref. AMM, 21-C-25-10-00-00A-040A-A).
- (4) Disconnect the electrical connector (P167) from the receptacle on the oxygen monitor (Ref. AMM, 21-C-35-40-02-00A-520A-A).

B. Modification (Ref. Figs. 1 thru 3)

- (1) Do the modification to the aircraft wiring:
 - (a) Disconnect and remove the wire W42A24N from between terminal 13 of the electrical connector P167 and terminal D of the electrical ground PG031 located in the rear cockpit on the left side (Ref. Hook-Up Chart, Fig. 3, Line 1).
 - (b) Install the jumper wire (Ref. Hook-Up Chart, Fig. 3, Line 2)
 - Install a pin (P/N 971.75.17.903) on one end of the new wire (P/N 919.79.41.301).
 - 2 Connect the wire to terminal 13 of the electrical connector P167.
 - Route the wire to terminal 19 of the electrical connector P167 and cut to length.
 - 4 Remove the pin from terminal 19 of the electrical connector P167.
 - Install the pin from terminal 19 on the other end of the new wire (P/N 919.79.41.301).
 - 6 Connect the wire to terminal 19 of the electrical connector P167.

NOTE: Steps 3.B.(2) thru (8) are not necessary if Service Bulletin 46-010 (Systems Integration and Display - Mission Computer - Replace the Open Systems Mission Computer (OSMC) and Update the Software) has been previously incorporated.

(2) Do the procedure to set-up the programming equipment, PR600 (P/N 990.00.00.239)

NOTE: The P/N above is part of the LTE Support Equipment RSAF.

- (a) Insert the CD in the kit into the drive D:\.
- (b) Follow the instructions and complete the installation (no entries required, give authorization to software if a warning is displayed).

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- (c) Remove the CD from the drive D:\.
- (3) Do the procedure to install the LTE package

Put the CD with the LTE Installation Package (P/N 513.31.21.035 or 513.31.21.040) in the drive D:\.

- Install the LTE user interface: (a)
 - Select Start-> Control Panel-> Add or Remove Programs-> Line Test 1 Equipment-> Remove.
 - 2 Select all messages shown to remove the software.
 - Inside the LTE installation package on the CD, in the LTE user interface 3 package folder, select Setup.
 - Follow the program instructions (accept the terms of the license agreement, 4 no entries required) to complete the installation.
 - On the desktop, double click the LTE Icon, start the LTE user interface 5 software and select Ok if the serial number code is requested.
 - Close the LTE user interface software. 6
- (b) Install the HDAS UPLOADER
 - Select Start-> Control Panel-> Add or Remove Programs-> HDAS Uploader -1 > Remove.
 - 2 Select all messages shown to remove the software.
 - 3 Inside the LTE installation package on the CD, in the HDAS Uploader folder. select Setup and continue with the installation.
 - 4 On Select Installation folder, select click radio button Everyone and then Next until the Custom Configuration screen is displayed.
 - <u>5</u> On Custom Configuration, enter these parameters:

• Profile name: satellitePearce FTP Server IP: 172.30.11.18

• Username: ftpuser

Password: Pilatus@2007

- Select OK. <u>6</u>
- 7 Click on LTE and MEDIUM.
- Select OK. 8
- 9 Follow the program instructions (no other entries required) to complete the installation.

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- On the Laptop, create the folder C:\Program Files\L-3 Com\LTE\Downloaded Data (if not already shown).
- Select Start -> All programs -> HDAS Uploader -> HDAS Uploader (select Ok if messages are displayed).
- 12 On the HDAS Uploader screen, select Admin tab.
- 13 Select directory type LTE and then Edit.
- 14 On the Edit window, browse for the folder C:\Program Files\L-3 Com\LTE\
 Downloaded Data.
- 15 Select Save.
- 16 In the drop down menu under Default Profile set "satellitePearce".
- 17 Exit the HDAS Uploader.
- (c) Install the RIOC LOADER
 - Select Start-> Control Panel-> Add or Remove Programs-> RIOC Table Loader -> Remove.
 - Select all messages shown to remove the software.
 - Inside the LTE installation package on the CD, in the RIOC Loader folder, select Setup.
 - 4 Follow the program instructions (no other entries required) to complete the installation.
 - 5 Connect the Edgeport device (P/N 990.00.01.205) to the LTE.
 - 6 If the Found New Hardware Windows Wizard opens:
 - Insert the CD from the Edgeport device (P/N 990.00.01.205) into the LTF
 - Follow the Windows Wizard to install the device (do not search in the Windows Update or in the Internet, select Next, select Next).
 - Select Start-> All programs-> Digi USB-> Edgeport Configuration Utility.
 - 8 Select Configure.
 - 9 In the COM port based on converted serial number section, enter "2" in the Port 1 field.
 - 10 Select Ok.
 - 11 Select Ok.
 - 12 If necessary, remove the Edgeport CD and the Edgeport device from the LTE and insert the LTE Installation Package CD.

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- (d) Install the CLDU PROGRAMMER
 - Select Start-> Control Panel-> Add or Remove Programs-> CLDU Loader -> Remove.
 - Select all messages shown to remove the software.
 - Inside the LTE installation package on the CD, in the CLDU Programmer folder, select Setup.
 - Follow the program instructions (no other entries required) to complete the installation.
 - Connect the Interface Box (P/N 985.99.99.612) to the Laptop through the USB Port.
 - 6 If the Found New Hardware Windows Wizard opens, follow the Wizard to install the device (do not search in the Windows Update or in the Internet, install from the specific location D:\CLDU Programmer\USB Drivers).
 - <u>7</u> Disconnect the Interface Box (P/N 985.99.99.612) from the Laptop.
 - 8 If necessary, install the LTE Installation Package CD.
- (e) Install the PDU OFFSET LOADER
 - 1 Inside the software folder, select Setup.
 - Follow the program instructions (no other entries required) to complete the installation.
- (f) Install the IRU Tray Alignment software
 - 1 Inside the software folder, select Setup
 - Complete the installation following the program instructions (no entries required. It is not necessary to reboot at this time).
 - 3 Close the open windows and reboot the system as instructed by the program.
- (4) Do the procedure to install the LTE Configuration Files

Put the CD with the LTE Configuration File (P/N 513.31.21.039 or 513.31.21.045) in the drive D:\.

(a) Start the LTE Software, Administrator Section, Aircraft Tab, select one of the Aircraft to be modified (link to new software to be performed).

NOTE: After completion of the next steps, all the aircraft with the same Aircraft Configuration File will be automatically configured to the change.

(b) In the Software Files Tab, use the browse function and create the links that follow:

"HUD Boresight Software" to

"D:\PDUOffset_Configuring_Package\PDUOffsetStart_A.bat".

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"RIOC Table Software" to

"D:\RIOCLoader_Configuring_Package\RSAFRIOCLoaderStart_C.bat".

"CLDU Lighting Curve Software" to "D:\ to

"CLDUProgrammer_Configuring_Package\RSAFCLDUProgrammerStart_A.bat".

"IRS Alignment Software" to "C:\pc_tray_align\pc_tray_align.exe".

"ELT Programming Software" to "C:\Program Files\Kannad Winprogr v2.0.3\ Kannadwinprogr.exe".

- (c) Select Save All.
- (d) Select the 'Report' button under the 'Aircraft' tab and do a check of the LTE Database configuration.

NOTE: All the modified aircraft should report a configuration in line with Table 1. In Table 1, the 'X' is used as wildcard. The rows reported by the LTE could be more than those shown in the Table or have a different order. This is dependant on the previous configuration. However, rows with the same FILE TYPE have to be identical to those in the Table 1.

TAIL NBR (AIRCRAFT NAME): XXXX(5310421035_-) SERIAL NBR: XXX

S-MODE ID: XXXXXXXX Source: Maintenance WD: XXX, XXX BITS: x111x111x111,

x111x111x111x111 SF: 1,2,3,4, 1,2,3,4

FILE TYPE/PATH: software9 D:\CLDUProgrammer_Configuring _Package\RSAFCLDUProgrammerStart_ A.bat DATE: XXX

FILE TYPE/PATH: software3 C:\Program Files\Condor Engineering\CEI-DL615\bin\dl615_multi.exe DATE: XXX

FILE TYPE/PATH: config C:\Program Files\L-3 Com\LTE\Configurations\5310421035_-.xls DATE: XXX

FILE TYPE/PATH: download1 C:\Program Files\L-3 Com\LTE\Downloaded Data\ DATE: XXX

FILE TYPE/PATH: download2 C:\Program Files\L-3 Com\LTE\Downloaded Data\ DATE: XXX

FILE TYPE/PATH: download3 C:\Program Files\L-3 Com\LTE\Downloaded Data\ DATE: XXX

FILE TYPE/PATH: download4 C:\Program Files\L-3 Com\LTE\Downloaded Data\ DATE: XXX

FILE TYPE/PATH: software2 D:\RIOCLoader_Configuring _Package\RSAFRIOCLoaderStart_C.bat DATE: XXX

FILE TYPE/PATH: software6 C:\Program Files\RUAG Aerospace\HDAS Uploader\uploader.exe DATE: XXX

FILE TYPE/PATH: software8 D:\HUD_Configuring_Package\HUDstartRSAF3.bat DATE: XXX

FILE TYPE/PATH: utility4 D:\LTE_Configuring_Package\DASU_Configuration_Table\5310421036_-.bin DATE: XXX

FILE TYPE/PATH: software1 D:\OSMC_Configuring_Package\OSMCstartRSAF3.bat DATE: XXX

FILE TYPE/PATH: software5 C:\Program Files\Kannad\KANNAD WINPROGR

V2.0.3\KANNADWINPROGR.exe DATE: XXX

FILE TYPE/PATH: software4 C:\pc_tray_align\pc_tray_align.exe DATE: XXX

FILE TYPE/PATH: software7 D:\PDUOffset _Configuring _Package\PDUOffsetStart_A.bat DATE: XXX

Table 1: LTE (P/N 513.31.21.004/B) Configuration

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1 Select Cancel.

NOTE: If the AMM is at Issue 2, Revision 3 or higher, use the Data Module listed below. If the AMM is not at Issue 2, Revision 3, use Appendix 1

(5) Do the procedure to load the updated configuration table in the RIOC 1, refer to AMM 21-C-46-10-00-01A-750A-A.

The correct configuration for the RIOC 1 table viewed on the MFD is:

• 5460421020/E

NOTE: If the AMM is at Issue 2, Revision 3 or higher, use the Data Module listed below. If the AMM is not at Issue 2, Revision 3, use Appendix 2

(6) Do the procedure to load the updated configuration table in the RIOC 2, refer to AMM 21-C-46-10-00-02A-750A-A.

The correct configuration for the RIOC 2 table viewed on the MFD is:

• 5460421020/E

NOTE: If the AMM is at Issue 2, Revision 3 or higher, use the Data Module listed below. If the AMM is not at Issue 2, Revision 3, use Appendix 3

(7) Do the procedure to load the updated configuration table in the RIOC 3, refer to AMM 21-C-46-10-00-03A-750A-A.

The correct configuration for the RIOC 3 table viewed on the MFD is:

• 5460421020/E

NOTE: If the AMM is at Issue 2, Revision 3 or higher, use the Data Module listed below. If the AMM is not at Issue 2, Revision 3, use Appendix 4

(8) Do the procedure to load the updated configuration table in the RIOC 4, refer to AMM 21-C-46-10-00-04A-750A-A.

The correct configuration for the RIOC 4 table viewed on the MFD is:

• 5460421020/E

C. Close up

- (1) Remove all tools and materials. Make sure the work areas are clean.
- (2) Connect the electrical connector (P167) to the receptacle on the oxygen monitor (Ref. AMM, 21-C-35-40-02-00A-720A-A).
- (3) Do the test to make sure the modification is correct:
 - (a) Connect the test switch (P/N 513.35.21.003) to the aircraft wiring as follows (Ref. Fig. 2 and Fig. 4):
 - Locate the terminal block TB030-05 in the rear cockpit, on the left side.

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- Disconnect the wire W32F22 from terminal K of the TB030-05 (Ref. Hook-Up Chart, Fig. 4, Line 1).
- Connect the wire (which has the pin installed) from the test switch (P/N 513.35.21.003) to terminal K of the TB030-05 (Ref. Hook-Up Chart, Fig. 4, Line 2).
- 4 Connect the wire (which has the in-line splice installed) from the test switch (P/N 513.35.21.003) to the wire W32F22 (Ref. Hook-Up Chart, Fig. 4, Line 3).
- 5 Make sure the test switch (P/N 513.35.21.003) is set to the NORM position.
- (b) Before you do the work to the oxygen system, you must do the procedures shown in 21-C-35-00-00A-012A-A.
- (c) Before you do the work to the Environmental Control System (ECS), you must do the procedures shown in 21-C-21-00-00A-012A-A.
- (d) Before you do the work to the power plant, you must do the procedures shown in 21-C-71-00-00-00A-012A-A.

NOTE: For the location of the access items, refer to 21-C-06-40-00-00A-055A-A.

- (e) Open the rear RH door ENG06 and the avionics-bay servicing-door, F17.
- (f) Disconnect the pipe between the P2.5 supply-pipe and the On-Board Oxygen-Generating System (OBOGS) heat exchanger, refer to 21-C-35-00-00-00A-344A-A.
- (g) Connect the adapter and the pipe of the test air adapter (P/N 513.35.09.001) to the pipe, refer to 21-C-35-00-00A-344A-A.

NOTE: For the location of the switches on the OXYGEN REGULATOR panel in the front cockpit, refer to 21-C-31-10-01-01A-040A-A.

(h) Make sure the OXYGEN switch in the front cockpit is set to the OFF position.

NOTE: For the location of the switches on the OXYGEN REGULATOR panel in the rear cockpit, refer to 21-C-31-10-02-01A-040A-A.

- (i) Make sure the OXYGEN switch in the rear cockpit is set to the OFF position.
- (j) Connect the air supply to the air adapter test set (P/N 513.35.09.001).

CAUTION: DO NOT SUPPLY AIR PRESSURE OF MORE THAN 4,83 BAR (70 PSIG) TO THE OBOGS . IF YOU SUPPLY A PRESSURE OF MORE THAN 4,83 BAR (70 PSIG), DAMAGE TO SYSTEM-COMPONENTS CAN OCCUR.

- (k) Set the air supply to give a pressure of 2,07 bar (30 psig).
- (I) Energize the aircraft electrical system, refer to 21-C-24-40-00-00A-331A-A.

NOTE: For the location of the MC/HUD switch, refer to 21-C-31-10-01-08A-040A-A.

(m) Set the MC/HUD switch to the MC position.

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NOTE: For more information on the Multi-Functional Display (MFD) ECS page, refer to 21-C-46-31-04-00A-040A-A.

- (n) Push the ECS soft key on the MFD.
- (o) Use the OXYGEN REGULATOR panel in the front cockpit and a stopwatch to do the steps that follow at the same time:
 - · Set the OXYGEN switch to the ON position
 - Start the stopwatch.

NOTE: For more information on the Dedicated Warning Panel (DWP), refer to 21-C-31-50-01-00A-040A-A.

- (p) Make sure that:
 - The RED OXY caption on the ECS page shows
 - The RED OXY caption on the DWP shows
 - The OBOGS brick symbol on the ECS page is red.
- (q) When the red OXY caption goes off, stop the stopwatch.
- (r) Make a record of the time shown on the stopwatch.
- (s) Make sure that the time is less than three minutes.
- (t) When the OBOGS has started, do this test:
 - 1 Set the test switch (P/N 513.35.21.003) to the OFF position.
 - 2 Make sure that:
 - The RED OXY caption on the ECS page comes on
 - The RED OXY caption on the DWP comes on
 - The OBOGS brick symbol on the ECS page turns red.
 - 3 Set the test switch to the NORM position.
 - 4 Set the OXYGEN switch on the OXYGEN REGULATOR panel in the front cockpit to the OFF position and then to the ON position.
 - 5 Make sure that:
 - · The RED OXY caption on the ECS page does not show
 - · The RED OXY caption on the DWP does not show
 - The OBOGS brick symbol on the ECS page is green.
- (u) Set the OXYGEN switch on the OXYGEN REGULATOR panel in the front cockpit to the OFF position.
- (v) Set the MC/HUD switch to the OFF position.
- (w) De-energize the aircraft electrical system, refer to 21-C-24-40-00-00A-332A-A.

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- (x) Disconnect the test switch (P/N 513.35.21.003) from the aircraft wiring as follows (Ref. Fig. 2 and Fig. 4):
 - <u>1</u> Disconnect the wire (which has the in-line splice installed) from the wire W32F22 (Ref. Hook-Up Chart, Fig. 4, Line 4).
 - Disconnect the wire (which has the pin installed) from the terminal K of the TB030-05 (Ref. Hook-Up Chart, Fig. 4, Line 5).
 - 3 Connect the wire W32F22 to terminal K of the TB030-05 (Ref. Hook-Up Chart, Fig. 4, Line 6).
- (4) Do the function test of the oxygen system, refer to 21-C-35-00-00-00A-344A-A.

NOTE: Some of the set-up steps called up in the functional test have been already been done in Step 3.C.(3).

- (5) Install the rear cockpit, lower-left rear-panel (Ref. AMM, 21-C-25-10-00-00A-040A-A).
- (6) Install the rear ejection seat (Ref. AMM, 21-C-95-10-00-00A-720A-A).

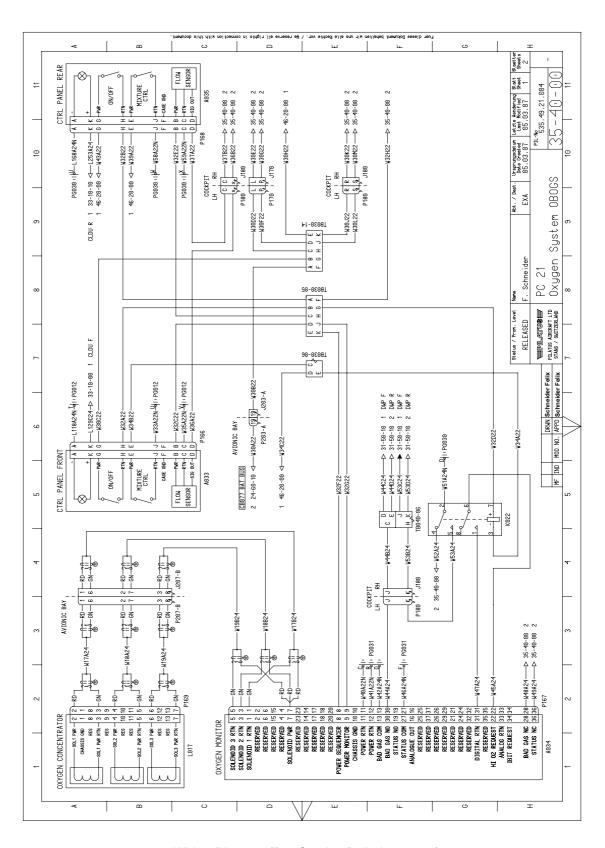
D. Documentation

- (1) Make an entry in the Aircraft Logbook that this Service Bulletin has been incorporated.
- (2) Use the Service Bulletin Evaluation Sheet and report your results and the serial number of the aircraft to PILATUS.

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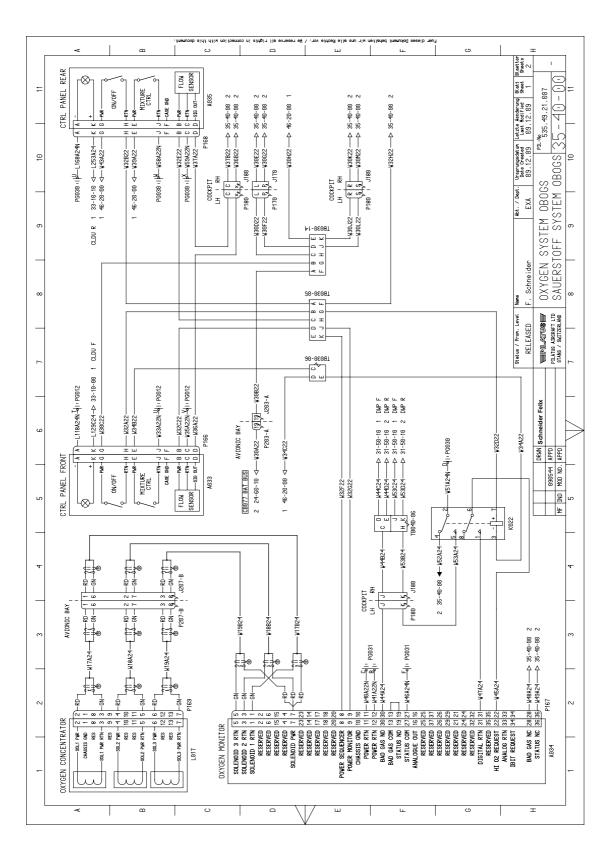




Wiring Diagram (Pre-Service Bulletin 35-001) Figure 1

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Wiring Diagram (Post Service Bulletin 35-001) Figure 2

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	Remarks	Disconnect Ends 1 and 2, remove wire	New wire. Connect Ends 1 and 2
	Ident. No.	PG031	P167
End 2	Terminal No.	۵	19
	Terminal P/N. Terminal Ident. No.	•	Note 2
Color Wire No.		W42A24N	Note 1
	Color	-	-
End 1	Terminal P/N.	,	971.75.17.903
	End 1 Terminal No.		13
	Ident. No.	P167	P167
6	PuiJ	-	2

NOTE 1: Use the Operator supplied wire P/N 919.79.41.301.

NOTE 2: Use the pin from the related terminal of the plug P167.



6		End 1					End 2		
ρuịϽ	Ident. No.	Terminal No.	Terminal P/N.	Color	Wire No.	Terminal P/N.	Terminal No.	ldent. No.	Remarks
-	TB030-05	×			W32F22		8	P167	Disconnect End 1
2	TB030-05	×				Wire with pin installed on the end (Part of Test Switch P/N 513.35.21.003)	Wire with pin installed on the end irt of Test Switch P/N 513.35.21.00	the end 35.21.003)	Connect End 2 to End 1
3	P167	8	•	-	W32F22	Wire with in-line splice installed on the end (Part of Test Switch P/N 513.35.21.003)	splice installe witch P/N 513	ed on the end (.35.21.003)	Connect End 2 to wire from End 1
4	P167	80			W32F22	Wire with in-line splice installed on the end (Part of Test Switch P/N 513.35.21.003)	splice installe witch P/N 513	ed on the end (.35.21.003)	Wire with in-line splice installed on the end Disconnect End 2 from the wire from (Part of Test Switch P/N 513.35.21.003) End 1
5	TB030-05	¥	-	-	-	Wire with pin installed on the end (Part of Test Switch P/N 513.35.21.003)	Wire with pin installed on the end art of Test Switch P/N 513.35.21.00	the end 35.21.003)	Disconnect End 2 from End 1
9	TB030-05	メ			W32F22		8	P167	Connect the wire to End 1

Hook-Up Chart Figure 4



Appendix 1

RIOC 1 - LOAD SOFTWARE PROCEDURES

WARNING: MAKE SURE THE SAFETY PIN IS INSTALLED IN THE EJECTION SEAT FIRING-HANDLE AND THE CFS BEFORE YOU DO WORK IN THE COCKPIT. IF THE SAFETY PIN IS NOT INSTALLED, YOU CAN OPERATE THE EJECTION SEAT OR THE CFS ACCIDENTALLY. THE EJECTION SEAT AND THE CFS CAN KILL OR CAUSE AN INJURY TO PERSONNEL AND CAN CAUSE DAMAGE TO EQUIPMENT.

1. Support equipment

Identification No.	Nomenclature	Qty
513.31.21.004	LINE TEST EQUIPMENT (LTE) BASIC KIT RSAF	1
513.31.21.006	LTE SUPPORT EQUIPMENT RSAF	1

The LTE Basic Kit (P/N 513.31.21.004) has the components that follow for the RIOC software NOTE: load procedure:

- · The Notebook
- The LTE Configuration Files Compact Disk (CD).

The LTE Support Equipment (P/N 513.31.21.006) has the components that follow for the NOTE: RIOC software load procedure:

- The RIOC Maintenance Cable
- · The Edgeport USB Adapter.

2. **Procedure**

A. Preparation.

- (1) Before you do work to the electrical system, you must do the safety procedures shown in the AMM, 21-C-24-00-00-00A-012A-A.
- Energize the aircraft electrical system (Ref. AMM 21-C-24-40-00-00A-331A-A). (2)
- (3) Connect the RIOC maintenance cable P807-A connector to the J500 connector in the front cockpit.
- Connect the RIOC maintenance cable P806-A to the USB Adapter. (4)
- (5)Connect the USB Adapter to Notebook.

B. Load Procedure.

- (1) Power up the notebook.
- (2) Put the LTE Configuration Files CD in the CD drive of the notebook.
- (3) Double click the LTE icon (Ref. Fig 1, Item 1) to start the LTE software.

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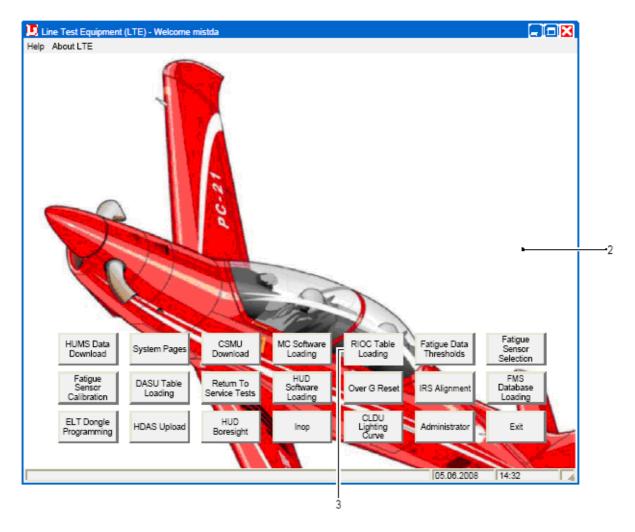


Figure 1

- (4) Select the RIOC Table Loading button (Ref. Fig 1, Item 3).
- (5) Click on the Yes button on the Utility Launch pop up box.
- (6) When prompted, select the aircraft tail number from the drop down menu, then click OK.

NOTE: For the location of the access items, refer to AMM, 21-A-06-40-00-00A-055A-A.

- Open the right avionics-bay servicing-door, F17. (7)
- (8)Open, then close the circuit breaker RIOC 1 (B10) in the avionics bay to set the RIOC 1 off then on again.

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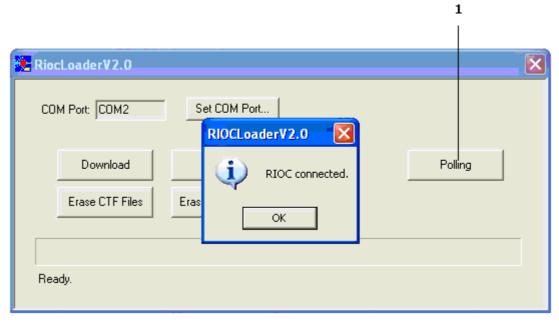


Figure 2

(9) Select the Polling button (Ref. Fig 2, Item 1).

NOTE: When the "RIOC not connected" error message is shown on the RIOC Loader V2.0 dialog box, do a check of the connections and do Step 2.B.(9) again.

(10) Make sure that the "RIOC connected" message is shown on the RIOC Loader V2.0 dialog box (Ref. Fig 2), then click OK.

NOTE: The RIOC configuration files are stored in the RIOC_CT folder on the LTE Configuration Files CD. The RIOC Loader V2.0 software automatically points to this folder.

- (11) For RIOC 1 you must download the files that follow:
 - · The RIOC 1 configuration file: ctfile 1.ctf
 - The RIOC 2 configuration file: ctfile 2.ctf
 - The RIOC 3 configuration file: ctfile 3.ctf.
- (12) For each configuration file that must be downloaded do Step 2.B.(12)(a) thru (c).
 - (a) Select the Download button (Ref. Fig 3, Item 1).
 - (b) In the OPEN window pop up box, select the correct configuration file and select the OPEN button.
 - (c) When the download is correctly ended, click OK.

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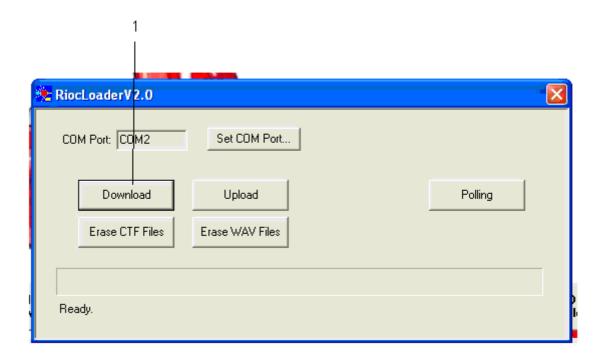


Figure 3

- (13) On the LTE main window, select the Exit button.
- Disconnect the RIOC maintenance cable P807-A from the J500 connector in the front (14)cockpit.
- Open, then close the circuit breaker RIOC 1 (B10) in the avionics bay to set the RIOC 1 off then on again.

NOTE: For the location of the MC/HUD switch in the front cockpit, refer to AMM, 21-C-31-10-01-08A-040A-A.

(16) Set the MC/HUD switch to the MC position.

NOTE: For more information on the Multi-Function Display (MFD) MAINT page, refer to AMM, 21-C-46-31-08-01A-040A-A.

- (17) Push the SYS, MAINT soft keys on the left MFD in the front cockpit.
- (18) Make sure that the MFD MAINT page shows the correct RIOC1 software part number (P/N 5460421020/E).
- (19) Set the MC/HUD switch to the OFF position.

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C. Job Close-Up

- (1) De-energize the aircraft electrical system (Ref. AMM, 21-A-24-40-00-00A-332A-A).
- (2) Disconnect the RIOC maintenance cable from the USB adapter.
- Disconnect the USB adapter from the notebook. (3)
- (4) Close all the software on the notebook.
- (5) Remove the LTE Configuration files CD from the CD drive of the notebook.
- (6) Power down the notebook.

NOTE: For the location of the access items, refer to AMM, 21-A-06-40-00-00A-055A-A.

Close the right avionics-bay servicing-door, F17. (7)

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Appendix 2

RIOC 2 - LOAD SOFTWARE PROCEDURES

WARNING: MAKE SURE THE SAFETY PIN IS INSTALLED IN THE EJECTION SEAT FIRING-HANDLE AND THE CFS BEFORE YOU DO WORK IN THE COCKPIT. IF THE SAFETY PIN IS NOT INSTALLED, YOU CAN OPERATE THE EJECTION SEAT OR THE CFS ACCIDENTALLY. THE EJECTION SEAT AND THE CFS CAN KILL OR CAUSE AN INJURY TO PERSONNEL AND CAN CAUSE DAMAGE TO EQUIPMENT.

1. Support equipment

Identification No.	Nomenclature	Qty
513.31.21.004	LINE TEST EQUIPMENT (LTE) BASIC KIT RSAF	1
513.31.21.006	LTE SUPPORT EQUIPMENT RSAF	1

NOTE: The LTE Basic Kit (P/N 513.31.21.004) has the components that follow for the RIOC software load procedure:

- · The Notebook
- The LTE Configuration Files Compact Disk (CD).

NOTE: The LTE Support Equipment (P/N 513.31.21.006) has the components that follow for the RIOC software load procedure:

- The RIOC Maintenance Cable
- · The Edgeport USB Adapter.

2. Procedure

A. Preparation.

- (1) Before you do work to the electrical system, you must do the safety procedures shown in the AMM, 21-C-24-00-00-00A-012A-A.
- (2) Energize the aircraft electrical system (Ref. AMM 21-C-24-40-00-00A-331A-A).
- (3) Connect the RIOC maintenance cable P807-A connector to the J500 connector in the front cockpit.
- (4) Connect the RIOC maintenance cable P806-B to the USB Adapter.
- (5) Connect the USB Adapter to Notebook.

B. Load Procedure.

- (1) Power up the notebook.
- (2) Put the LTE Configuration Files CD in the CD drive of the notebook.
- (3) Double click the LTE icon (Ref. Fig 1, Item 1) to start the LTE software.

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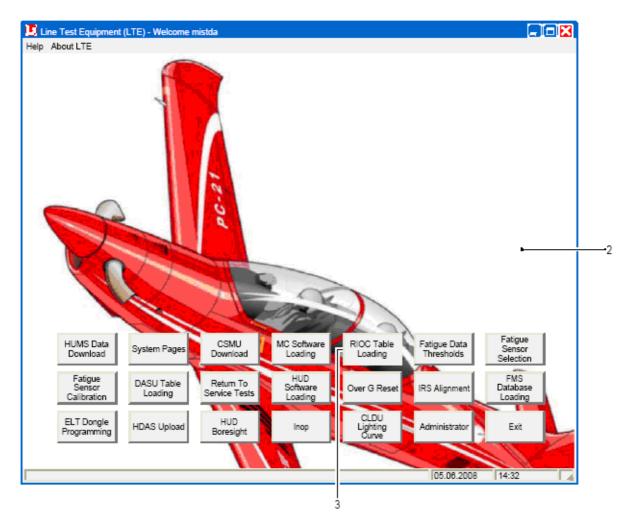


Figure 1

- (4) Select the RIOC Table Loading button (Ref. Fig 1, Item 3).
- (5) Click on the Yes button on the Utility Launch pop up box.
- (6) When prompted, select the aircraft tail number from the drop down menu, then click OK.

NOTE: For the location of the access items, refer to AMM, 21-A-06-40-00-00A-055A-A.

- Open the right avionics-bay servicing-door, F17. (7)
- (8)Open, then close the circuit breaker RIOC 2 (B13) in the avionics bay to set the RIOC 2 off then on again.

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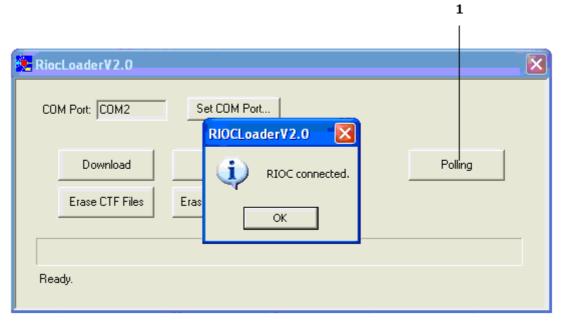


Figure 2

(9)Select the Polling button (Ref. Fig 2, Item 1).

> When the "RIOC not connected" error message is shown on the RIOC Loader V2.0 dialog box, do a check of the connections and do Step 2.B.(9) again.

Make sure that the "RIOC connected" message is shown on the RIOC Loader V2.0 dialog box (Ref. Fig 2), then click OK.

The RIOC configuration files are stored in the RIOC CT folder on the LTE Configuration Files CD. The RIOC Loader V2.0 software automatically points to this folder.

- For RIOC 2 you must download the files that follow:
 - The RIOC 1 configuration file: ctfile 1.ctf
 - The RIOC 2 configuration file: ctfile 2.ctf
 - The RIOC 3 configuration file: ctfile 3.ctf.
- (12) For each configuration file that must be downloaded do Step 2.B.(12)(a) thru (c).
 - Select the Download button (Ref. Fig 3, Item 1). (a)
 - (b) In the OPEN window pop up box, select the correct configuration file and select the OPEN button.
 - (c) When the download is correctly ended, click OK.

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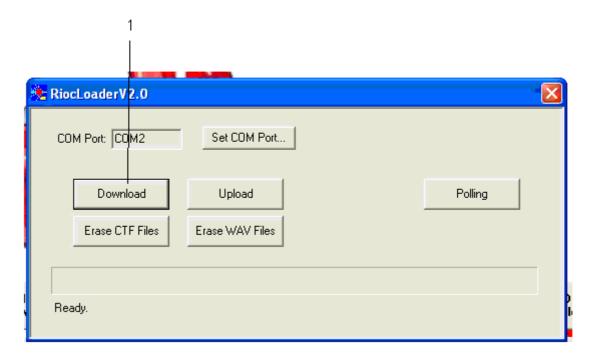


Figure 3

- (13) On the LTE main window, select the Exit button.
- Disconnect the RIOC maintenance cable P807-A from the J500 connector in the front (14)cockpit.
- Open, then close the circuit breaker RIOC 2 (B13) in the avionics bay to set the RIOC 2 off then on again.
 - **NOTE:** For the location of the MC/HUD switch in the front cockpit, refer to AMM, 21-C-31-10-01-08A-040A-A.
- (16) Set the MC/HUD switch to the MC position.
 - NOTE: For more information on the Multi-Function Display (MFD) MAINT page, refer to AMM, 21-C-46-31-08-01A-040A-A.
- (17) Push the SYS, MAINT soft keys on the left MFD in the front cockpit.
- (18) Make sure that the MFD MAINT page shows the correct RIOC2 software part number (P/N 5460421020/E).
- (19) Set the MC/HUD switch to the OFF position.

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C. Job Close-Up

- (1) De-energize the aircraft electrical system (Ref. AMM, 21-A-24-40-00-00A-332A-A).
- (2) Disconnect the RIOC maintenance cable from the USB adapter.
- Disconnect the USB adapter from the notebook. (3)
- (4) Close all the software on the notebook.
- (5) Remove the LTE Configuration files CD from the CD drive of the notebook.
- (6) Power down the notebook.

NOTE: For the location of the access items, refer to AMM, 21-A-06-40-00-00A-055A-A.

Close the right avionics-bay servicing-door, F17. (7)

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Appendix 3

RIOC 3 - LOAD SOFTWARE PROCEDURES

WARNING: MAKE SURE THE SAFETY PIN IS INSTALLED IN THE EJECTION SEAT FIRING-HANDLE AND THE CFS BEFORE YOU DO WORK IN THE COCKPIT. IF THE SAFETY PIN IS NOT INSTALLED, YOU CAN OPERATE THE EJECTION SEAT OR THE CFS ACCIDENTALLY. THE EJECTION SEAT AND THE CFS CAN KILL OR CAUSE AN INJURY TO PERSONNEL AND CAN CAUSE DAMAGE TO EQUIPMENT.

1. Support equipment

Identification No.	Nomenclature	Qty
513.31.21.004	LINE TEST EQUIPMENT (LTE) BASIC KIT RSAF	1
513.31.21.006	LTE SUPPORT EQUIPMENT RSAF	1

NOTE: The LTE Basic Kit (P/N 513.31.21.004) has the components that follow for the RIOC software load procedure:

- · The Notebook
- The LTE Configuration Files Compact Disk (CD).

NOTE: The LTE Support Equipment (P/N 513.31.21.006) has the components that follow for the RIOC software load procedure:

- The RIOC Maintenance Cable
- · The Edgeport USB Adapter.

2. Procedure

A. Preparation.

- (1) Before you do work to the electrical system, you must do the safety procedures shown in the AMM, 21-C-24-00-00-00A-012A-A.
- (2) Energize the aircraft electrical system (Ref. AMM 21-C-24-40-00-00A-331A-A).

NOTE: For the location of the access items, refer to AMM, 21-A-06-40-00-00A-055A-A.

- (3) Open the baggage bay servicing-door, F18.
- (4) Connect the RIOC maintenance cable P807-A connector to the J501 connector in the baggage bay.
- (5) Connect the RIOC maintenance cable P806-A to the USB Adapter.
- (6) Connect the USB Adapter to Notebook.

B. Load Procedure.

(1) Power up the notebook.

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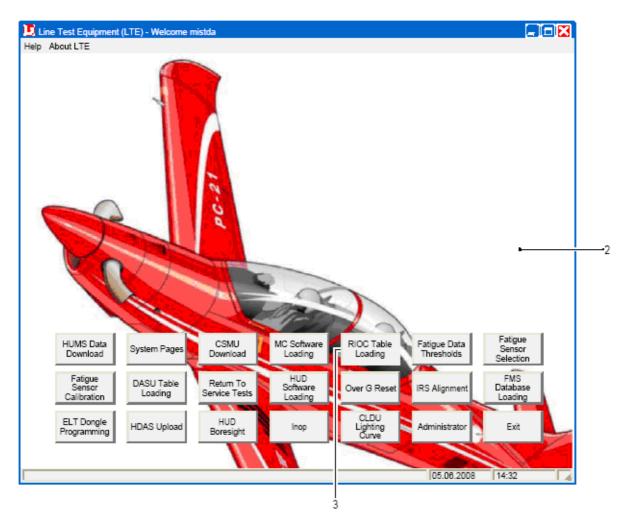


Figure 1

- (2) Put the LTE Configuration Files CD in the CD drive of the notebook.
- (3)Double click the LTE icon (Ref. Fig 1, Item 1) to start the LTE software.
- (4) Select the RIOC Table Loading button (Ref. Fig 1, Item 3).
- (5) Click on the Yes button on the Utility Launch pop up box.
- (6)When prompted, select the aircraft tail number from the drop down menu, then click OK.

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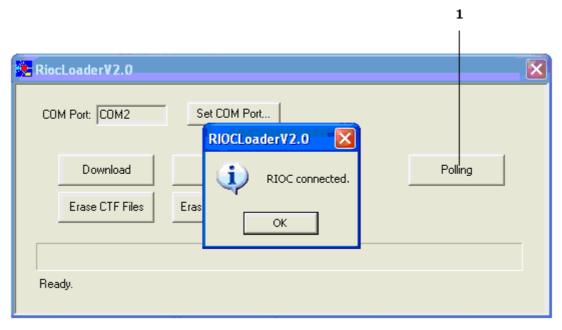


Figure 2

NOTE: For the location of the access items, refer to AMM, 21-A-06-40-00-00A-055A-A.

- (7) Open the right avionics-bay servicing-door, F17.
- (8) Open, then close the circuit breaker RIOC 3 (B16) in the avionics bay to set the RIOC 3 off then on again.
- (9) Select the Polling button (Ref. Fig 2, Item 1).

NOTE: When the "RIOC not connected" error message is shown on the RIOC Loader V2.0 dialog box, do a check of the connections and do Step 2.B.(9) again.

(10) Make sure that the "RIOC connected" message is shown on the RIOC Loader V2.0 dialog box (Ref. Fig 2), then click OK.

NOTE: The RIOC configuration files are stored in the RIOC_CT folder on the LTE Configuration Files CD. The RIOC Loader V2.0 software automatically points to this folder.

- (11) For RIOC 3 you must download the files that follow:
 - The RIOC 1 configuration file: ctfile 1.ctf
 - The RIOC 2 configuration file: ctfile 2.ctf
 - The RIOC 3 configuration file: ctfile 3.ctf.
- (12) For each configuration file that must be downloaded do Step 2.B.(12)(a) thru (c).
 - (a) Select the Download button (Ref. Fig 3, Item 1).
 - (b) In the OPEN window pop up box, select the correct configuration file and select the OPEN button.

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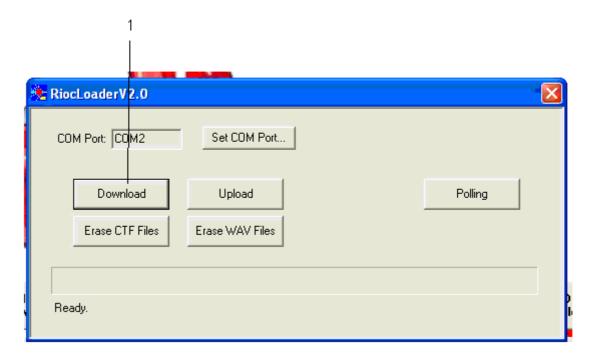


Figure 3

- (c) When the download is correctly ended, click OK.
- (13) On the LTE main window, select the Exit button.
- (14) Connect the RIOC maintenance cable P807-A connector to the J501 connector in the baggage bay.
- (15) Open, then close the circuit breaker RIOC 3 (B16) in the avionics bay to set the RIOC 3 off then on again.

NOTE: For the location of the MC/HUD switch in the front cockpit, refer to AMM, 21-C-31-10-01-08A-040A-A.

(16) Set the MC/HUD switch to the MC position.

NOTE: For more information on the Multi-Function Display (MFD) MAINT page, refer to AMM, 21-C-46-31-08-01A-040A-A.

- (17) Push the SYS, MAINT soft keys on the left MFD in the front cockpit.
- (18) Make sure that the MFD MAINT page shows the correct RIOC3 software part number (P/N 5460421020/E).
- (19) Set the MC/HUD switch to the OFF position.

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C. Job Close-Up

- (1) De-energize the aircraft electrical system (Ref. AMM, 21-A-24-40-00-00A-332A-A).
- (2) Disconnect the RIOC maintenance cable from the USB adapter.
- (3) Disconnect the USB adapter from the notebook.
- (4) Close all the software on the notebook.
- (5) Remove the LTE Configuration files CD from the CD drive of the notebook.
- (6) Power down the notebook.

NOTE: For the location of the access items, refer to AMM, 21-A-06-40-00-00A-055A-A.

(7) Close the right avionics-bay servicing-door, F17 and the baggage bay servicing-door, F18.

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Appendix 4

RIOC 4 - LOAD SOFTWARE PROCEDURES

WARNING: MAKE SURE THE SAFETY PIN IS INSTALLED IN THE EJECTION SEAT FIRING-HANDLE AND THE CFS BEFORE YOU DO WORK IN THE COCKPIT. IF THE SAFETY PIN IS NOT INSTALLED, YOU CAN OPERATE THE EJECTION SEAT OR THE CFS ACCIDENTALLY. THE EJECTION SEAT AND THE CFS CAN KILL OR CAUSE AN INJURY TO PERSONNEL AND CAN CAUSE DAMAGE TO EQUIPMENT.

1. Support equipment

Identification No.	Nomenclature	Qty
513.31.21.004	LINE TEST EQUIPMENT (LTE) BASIC KIT RSAF	1
513.31.21.006	LTE SUPPORT EQUIPMENT RSAF	1

NOTE: The LTE Basic Kit (P/N 513.31.21.004) has the components that follow for the RIOC software load procedure:

- · The Notebook
- The LTE Configuration Files Compact Disk (CD).

NOTE: The LTE Support Equipment (P/N 513.31.21.006) has the components that follow for the RIOC software load procedure:

- The RIOC Maintenance Cable
- · The Edgeport USB Adapter.

2. Procedure

A. Preparation.

- (1) Before you do work to the electrical system, you must do the safety procedures shown in the AMM, 21-C-24-00-00-00A-012A-A.
- (2) Energize the aircraft electrical system (Ref. AMM 21-C-24-40-00-00A-331A-A).

NOTE: For the location of the access items, refer to AMM, 21-A-06-40-00-00A-055A-A.

- (3) Open the baggage bay servicing-door, F18.
- (4) Connect the RIOC maintenance cable P807-A connector to the J501 connector in the baggage bay.
- (5) Connect the RIOC maintenance cable P806-B to the USB Adapter.
- (6) Connect the USB Adapter to Notebook.

B. Load Procedure.

(1) Power up the notebook.

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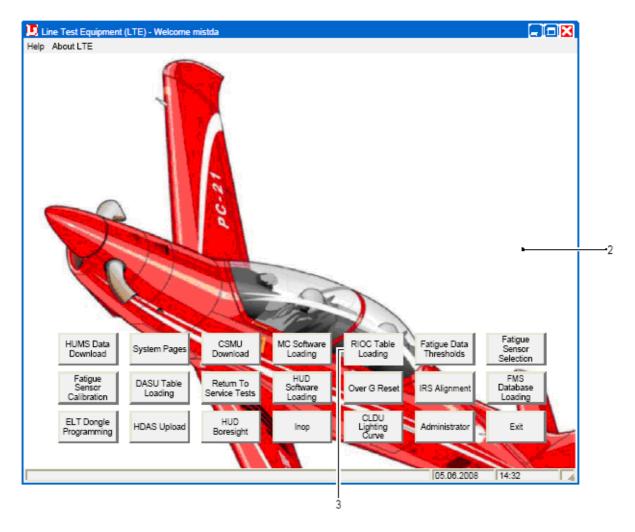


Figure 1

- (2) Put the LTE Configuration Files CD in the CD drive of the notebook.
- (3) Double click the LTE icon (Ref. Fig 1, Item 1) to start the LTE software.
- (4) Select the RIOC Table Loading button (Ref. Fig 1, Item 3).
- (5) Click on the Yes button on the Utility Launch pop up box.
- (6) When prompted, select the aircraft tail number from the drop down menu, then click OK.

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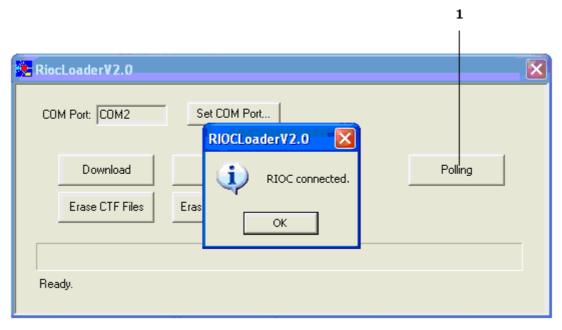


Figure 2

NOTE: For the location of the access items, refer to AMM, 21-A-06-40-00-00A-055A-A.

- (7) Open the right avionics-bay servicing-door, F17.
- Open, then close the circuit breaker RIOC 4 (B19) in the avionics bay to set the RIOC 4 off (8)then on again.
- (9)Select the Polling button (Ref. Fig 2, Item 1).

When the "RIOC not connected" error message is shown on the RIOC Loader NOTE: V2.0 dialog box, do a check of the connections and do Step 2.B.(9) again.

Make sure that the "RIOC connected" message is shown on the RIOC Loader V2.0 dialog box (Ref. Fig 2), then click OK.

The RIOC configuration files are stored in the RIOC_CT folder on the LTE Configuration Files CD. The RIOC Loader V2.0 software automatically points to this folder.

- For RIOC 4 you must download the files that follow:
 - The RIOC 1 configuration file: ctfile 4.ctf
 - The Audio callouts files: all .wav files
- (12) For each configuration file that must be downloaded do Step 2.B.(12)(a) thru (d).
 - (a) Select the Download button (Ref. Fig 3, Item 1).
 - (b) In the OPEN window pop up box, select All files (*.*) in the "files of type" box to display the full content of the folder.

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- (c) In the OPEN window pop up box, select the correct configuration file and select the OPEN button.
- (d) When the download is correctly ended click OK.

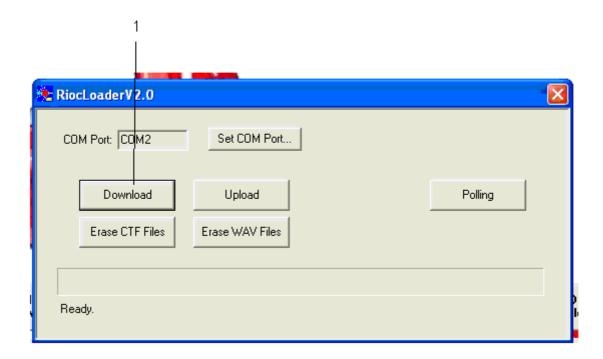


Figure 3

- (e) When the download is correctly ended, click OK.
- (13) On the LTE main window, select the Exit button.
- (14) Connect the RIOC maintenance cable P807-A connector to the J501 connector in the baggage bay.
- (15) Open, then close the circuit breaker RIOC 4 (B19) in the avionics bay to set the RIOC 4 off then on again.

NOTE: For the location of the MC/HUD switch in the front cockpit, refer to AMM, 21-C-31-10-01-08A-040A-A.

(16) Set the MC/HUD switch to the MC position.

NOTE: For more information on the Multi-Function Display (MFD) MAINT page, refer to AMM, 21-C-46-31-08-01A-040A-A.

- (17) Push the SYS, MAINT soft keys on the left MFD in the front cockpit.
- (18) Make sure that the MFD MAINT page shows the correct RIOC4 software part number (P/N 5460421020/E).
- (19) Set the MC/HUD switch to the OFF position.

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C. Job Close-Up

- (1) De-energize the aircraft electrical system (Ref. AMM, 21-A-24-40-00-00A-332A-A).
- Disconnect the RIOC maintenance cable from the USB adapter. (2)
- Disconnect the USB adapter from the notebook. (3)
- (4) Close all the software on the notebook.
- Remove the LTE Configuration files CD from the CD drive of the notebook. (5)
- (6) Power down the notebook.

NOTE: For the location of the access items, refer to AMM, 21-A-06-40-00-00A-055A-A.

Close the right avionics-bay servicing-door, F17 and the baggage bay servicing-door, F18. (7)

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Pilatus Aircraft LTD, Customer Technical Support (MCC), P.O. BOX 992, 6371 Stans, Switzerland Fax: +41 (0)41 619 6773						
	Email	: Techsupport@p	ılatus-a	urcraft.com		

SERVICE BULLETIN EVALUATION SHEET

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