



Service Letter SL-0003

Technical Portions FAA Approved

Epic Aircraft, LLC ♦ 22590 Nelson Road ♦ Bend OR 97701
Phone: 541-318-8849 ♦ Fax: 541-382-5125 ♦ Web: www.epicaircraft.com

Subject: Wiring Improvements

ATA-Code: 24-00

Labor: 4.0

Effectivity: K003 – K010.

Affected Model(s): E1000

Due: At the next annual inspection.

Compliance: Recommended

Recurrence: No

1 **BACKGROUND AND PURPOSE:**

This Service Letter has been created to ensure that the aircraft electrical wiring interconnect system meets best practices and that all electrical connectors are fully engaged in their receptacles.

2 **REFERENCES:**

Epic E1000 Airframe Maintenance Manual, PN SK05000000
AC43.13-1B

3 **WARRANTY:**

For aircraft under warranty, parts and labor will be covered by Epic Aircraft, LLC if the work is performed within the compliance period and at an Authorized E1000 Service Center.

4 **TOOLS:**

<u>No.</u>	<u>Description</u>	<u>Qty</u>	<u>Epic Aircraft Supplied</u>	<u>Customer Supplied</u>
1.	Common hand tools.	A/R	☐	☒

5 **PARTS/MATERIALS:**

<u>No.</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>	<u>Epic Aircraft Supplied</u>	<u>Customer Supplied</u>
1.	TYZ525M	Cable Tie, High Temp, 302°F, Adjustable	A/R	☐	☒

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6 INSTRUCTIONS:

A) Set the BATT 1 and BATT 2 switches to OFF.

B) Disconnect external electrical power from the airplane (refer to the E1000 AMM PN SK05000000, chapter 24-40).

NOTE: This Service Letter is to be performed with the aircraft opened for access for the annual inspection.

C) Do the steps that follow to check the wire routing near the FCU linkage:

1) Make sure the main power ground harness (HK25100007) and Aux Bus power wire (K2460201A-1/0) won't come in contact with the FCU linkage as follows:

a) Using light hand pressure, deflect the wires towards the FCU.

b) Make sure the wires won't come within 0.5" of any of the FCU linkages through their full range of travel.

c) Add additional support as needed using high temp cable ties (PN: TYZ525M).

d) Inspect all firewall forward wiring for best routing and security. Remedy wiring as necessary using best practices using AC43.13-1B.

D) Inspect the PFD fan wiring harnesses and engine main power harness electrical connector (P248) as follows:

1) Remove PFD 1, PFD 2, and the MFD (refer to the E1000 AMM PN SK05000000, chapter 34-40).

2) Move the left and right control yokes through their full range of motion and make sure there is no interference from any wiring.

3) Make sure that the PFD 1 and PFD 2 fan wire harnesses are supported so they will not come in contact with the control yoke mechanism if the electrical connectors (P401 and P402) become detached from the fans.

4) Make sure engine main power harness electrical connector (P248) is fully engaged to its receptacle. The connector is located on the firewall, forward of PFD1 and the MFD.

Note: If the harness is side loading the cannon plug, carefully manipulate the harness to relieve the side loading and tighten the cannon plug.

6) Install PFD 1, PFD 2, and the MFD (refer to the E1000 AMM PN SK05000000, chapter 34-40).

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E) Do the steps that follow to check wiring and electrical connectors in the underfloor area at the left aft spar saddle:

1) Reroute power wire K2460201B-1/0 as follows:

- a) Remove the fuse block cover (Refer to Figure 1).
- b) Disconnect the terminal end of K2460201B-1/0 from the upper terminal of fuse block (FB120).
- c) Disconnect the terminal end of K2110101A-4 from the lower terminal of fuse block (FB120).
- d) Connect the terminal end of K2110101A-4 from the upper terminal of fuse block (FB120).
- e) Connect the terminal end of K2460201B-1/0 from the lower terminal of fuse block (FB120).
- f) Make sure power wire K2460201B-1/0 is routed below the terminal block (TS118), away from the oxygen line (Refer to Figure 2).
- g) Install the fuse block cover.

2) Make sure the wires on the terminal block (TS118) are mounted for correct minimum bend radius as follows:

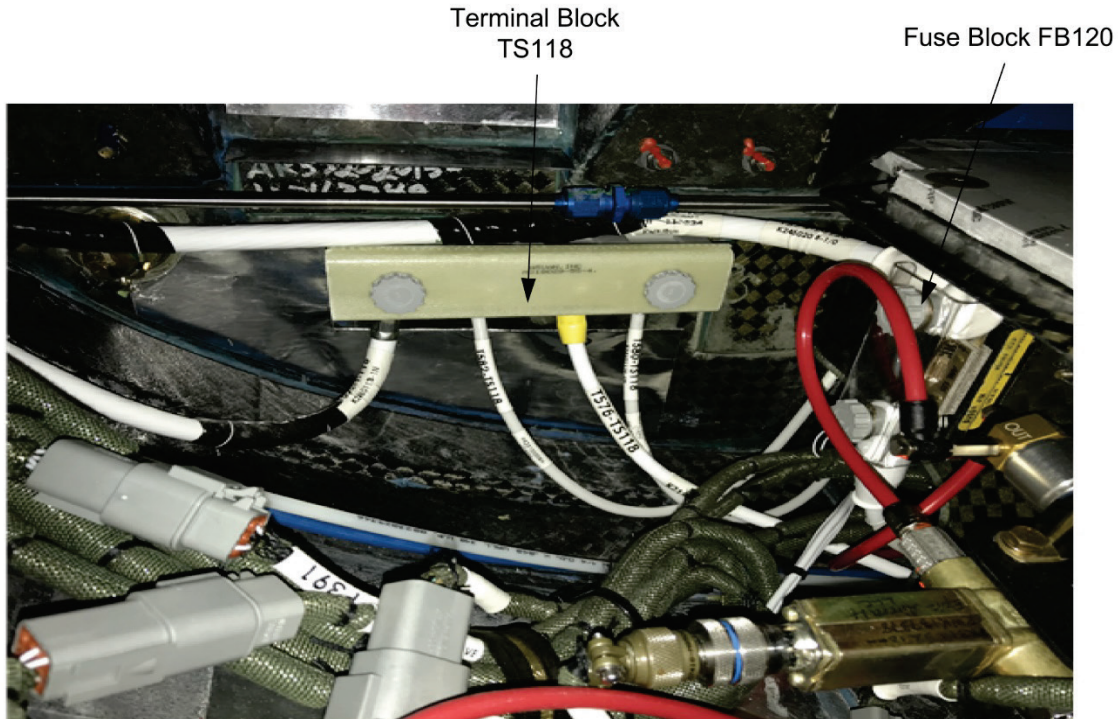
- a) Remove the terminal block cover (Refer to Figure 1).
- b) Disconnect K2460117B-1N from the outboard terminal stud.
- c) Disconnect K2460117F-6N from the second from outboard terminal stud.
- d) Connect K2460117F-6N to the outboard terminal stud.
- e) Connect K2460117B-1N to the second from outboard terminal stud.
- f) Make sure the wires are routed for the correct minimum bend radius (Refer to Figure 2).
- g) Install the terminal block cover.

F) On the aft pressure bulkhead, make sure AC Compressor electrical connector (P166) is fully engaged to its receptacle.

Note: If the harness is side loading the cannon plug, carefully manipulate the harness to relieve the side loading and tighten the cannon plug.

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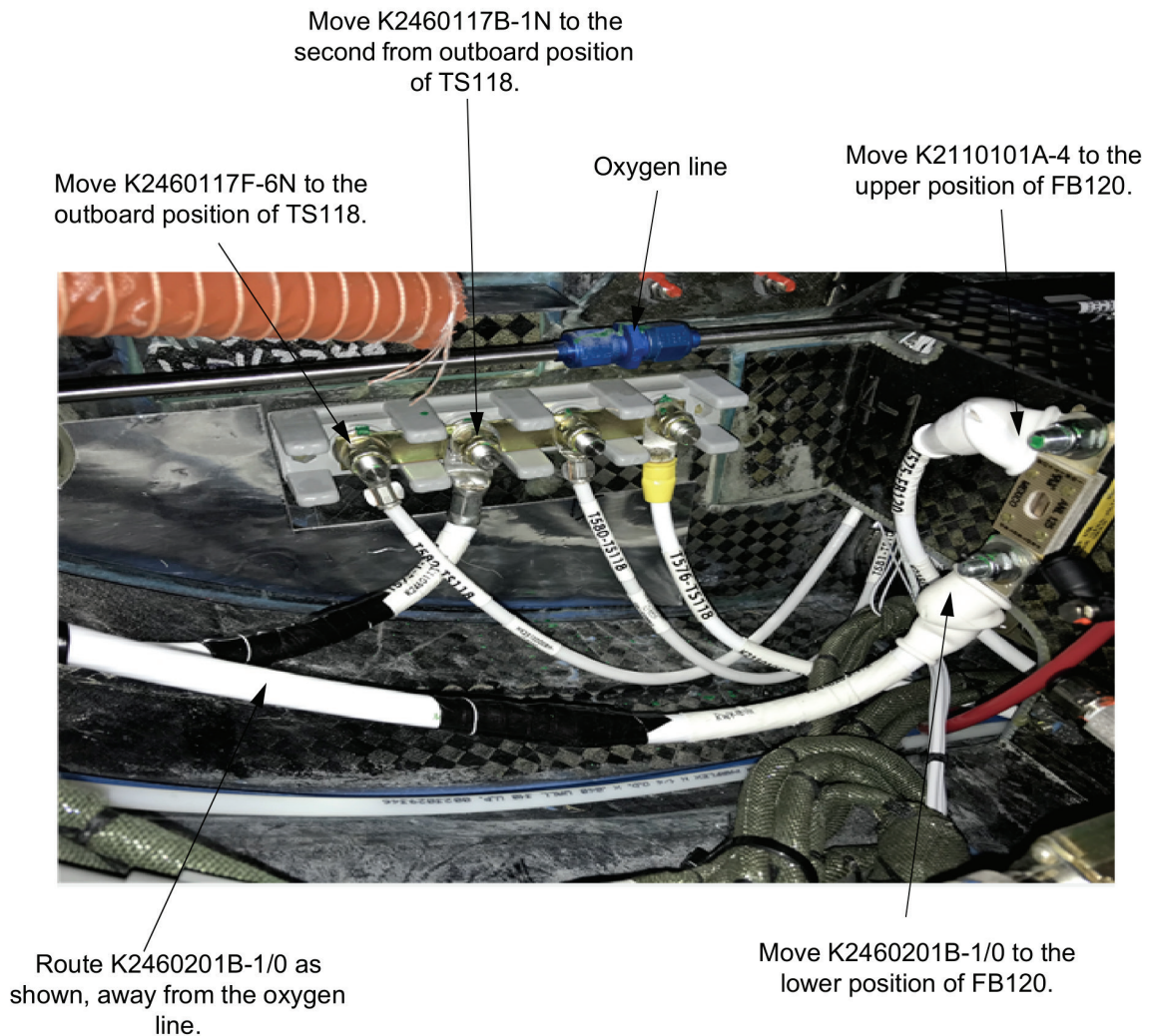
Figure 1: Wiring Improvements



Original Configuration

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Figure 2: Wiring Improvements



New Configuration
(Shown with terminal block and fuse block covers removed.)

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7 WEIGHT AND BALANCE:

N/A

8 PUBLICATIONS AFFECTED:

N/A

9 RECORD COMPLIANCE:

Make appropriate entry in airplane maintenance records.

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Appendix A: Compliance Letter

Please complete and mail this form to Customersupport@epicaircraft.com

This is to certify that I have completed the work in accordance with the Epic Aircraft, LLC Service Letter.

Aircraft Owner Information:

Date: _____ Aircraft Serial Number: _____ Aircraft Reg. Number: _____

Owner's Name: _____

Maintenance Entity Information

Name of Shop Performing the work: _____

Name of Person(s) Performing inspection and/or work: _____

Phone Number: _____ Email: _____

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