



Service Letter SL-0005

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: TCAS Antenna Cable Loss Adjustment

ATA-Code: 34-40

Labor: 2.0 Hours

Effectivity: K003 - K015

Affected Model(s): E1000 & E1000 GX

Due: As necessary.

Compliance: Recommended ☒ Mandatory ☐

Recurrence: No

1 **BACKGROUND AND PURPOSE:**

It has been found that the current cable loss setting for the Traffic Alert and Collision Avoidance System (TCAS) antenna may be causing erroneous TRFC or TCAS fail annunciations.

This Service Letter gives procedures to adjust the cable loss setting to prevent erroneous TRFC or TCAS fail annunciations.

2 **REFERENCES:**

Epic E1000 Aircraft Maintenance Manual P/N SK05000000

Epic E1000 Pilot's Operating Handbook and FAA Approved Airplane Flight Manual P/N SK05000001

Garmin G1000 NXi Line Maintenance Manual for the Epic E1000 P/N 190-02330-01

Garmin Line Maintenance and Configuration Manual P/N 190-00303-04

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 by a properly certificated Airframe and Power Plant mechanic or FAA approved repair station.

4 **TOOLS:**

<u>No.</u>	<u>Description</u>	<u>Qty</u>	<u>Epic Aircraft Supplied</u>	<u>Customer Supplied</u>
1.	N/A		☐	☐

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.	N/A			☐	☐

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6 INSTRUCTIONS:

1. Connect external electrical power to the airplane (refer to Epic E1000 Aircraft Maintenance Manual, PN SK05000000, chapter 24-40).
2. Put the aircraft in Configuration mode:
 - a. Pull the PFD 1, PFD 2 and MFD circuit breakers.
 - b. Set the BATT 1 and BATT 2 switches to ON.
 - c. Press ENTER on the pilot's PFD while resetting the PFD 1 circuit breaker.
 - d. Press ENTER on the co-pilot's PFD while resetting the PFD 2 circuit breaker.
 - e. Press ENTER on the MFD while resetting the MFD circuit breaker.
 - f. INITIALIZING SYSTEM message should be displayed on all three displays.

3. Use the FMS knob to select the GTS Configuration Page in the GTS Page Group.

4. Using the FMS knob go to the TOP ANT CBL LOSS field.

NOTE: The current loss should be 2.8dB.

5. Using the FMS knob, set the cable loss to 1.8dB.
6. Using the FMS knob, go to the System Chapter, System Upload page and press the Update Config softkey. Run and verify the update config.
7. Navigate to the Configuration Manager page.
8. Press the CNFM CFG softkey at the bottom of the display.
9. The Prompt Confirm the Configuration appears with OK selected.
10. Press ENT to confirm the configuration.
11. Set the BATT 1 and BATT 2 switches to OFF.
12. Perform the hangar test as follows:

- a. Set the BATT 1 and BATT 2 switches to ON.

NOTE: This test is performed with the G1000 NXi system in normal mode.

- b. On the MFD, navigate to the Traffic Map.
 - c. Turn off the ADS-B using the softkey.
 - d. Verify the STBY Traffic softkey is highlighted green.
 - e. Press the Traffic Test Softkey. Verify that the traffic test completes and gives an audible and visual "traffic system test passed" annunciation.
 - f. Turn ADS-B on using the softkey.

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13. Set the BATT 1 and BATT 2 switches to OFF.
14. Remove external electrical power from the airplane (refer to Epic E1000 Aircraft Maintenance Manual, PN SK05000000, chapter 24-40).
15. Perform a maintenance flight and make sure the TRFC fail annunciation is not displayed (refer to Epic E1000 Pilot's Operating Handbook and FAA Approved Airplane Flight Manual, PN SK05000001).

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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 Instruction.

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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