Service Bulletin SB-0073

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

Subject: Garmin GEA 71B Replacement

ATA-Code: 77-40

Labor: 3.0 hours

Effectivity: K115, K116, K119, K121-K129

Affected Model: E1000

Due: The next inspection interval.*

Compliance: Mandatory

Recurrence: No

* Contact Epic Aircraft prior to beginning work to confirm availability of a replacement GEA 71B:

Epic Aircraft Customer Support
22550 Nelson Rd.
Bend, OR 97701
(541) 237-7272
customersupport@epicaircraft.com

1 BACKGROUND AND PURPOSE:

Garmin has issued Service Bulletin 26124 to address a potential issue with the GEA 71B that could affect the EIS display or prevent the LRU from booting correctly. This Service Bulletin provides instructions for replacing the affected GEA 71B with an updated unit.

2 REFERENCES:

Epic E1000 Aircraft Maintenance Manual, P/N SK05000000, Latest Revision
G1000 NXi Line Maintenance Manual Epic E1000 AX, P/N: 190-03244-00, Latest Revision

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 Epic Authorized Service Center.

4 APPROVAL:

The engineering aspects of this service document have been shown to comply with the applicable Federal Aviation Regulations and are FAA approved.

5 REVISION:

Original Issue.

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6 TOOLS:

No.	Description	Qty	Epic Aircraft Supplied	Customer Supplied
1.	Basic Hand Tools	A/R	☐	☒

7 PARTS/MATERIALS:

No.	Part Number	Description	Qty	Epic Aircraft Supplied	Customer Supplied
1.	011-03682-00 MOD 3	Garmin GEA 71B	1	☒	☐

8 INSTRUCTIONS:

1. Connect external electrical power to the airplane (refer to Epic E1000 Aircraft Maintenance Manual, P/N SK05000000, Chapter 24-40).
2. Set the BATT 1 and BATT 2 switches to ON.
3. Make note the following readings on the MFD:

a. Nitrogen Pressure (N2PRES)	Current reading:
b. Fuel Pressure (FPRES)*	Current reading:
c. Oil Pressure (OIL PSI)*	Current reading:
d. Generator AMPS (GEN AMP)*	Current reading:
e. Alternator AMPS (ALTN AMP)*	Current reading:

*Reading should be 0 when the engine isn't running.

4. Set the BATT 1 and BATT 2 switches to off.
5. Disconnect external electrical power from the airplane (refer to Epic E1000 Aircraft Maintenance Manual, P/N SK05000000, Chapter 24-40).
6. Open and collar the ENG INST circuit breaker.
7. Remove the GEA 71B (refer to Epic E1000 Aircraft Maintenance Manual, P/N SK05000000, Chapter 77-40).

8. Confirm the serial number of the GEA 71B installed in the aircraft matches the applicable serial number in the table.
    a. If the serial numbers do not match, contact Epic Aircraft. Otherwise, proceed to Step 9.

Aircraft S/N	GEA 71B Serial Number
K115	497015677
K116	497015581
K119	497015667
K121	497016159
K122	497015886
K123	497015970
K124	497015973
K125	497016412
K126	497016389
K127	497016393
K128	497016492
K129	497016592

9. Install the replacement GEA 71B (refer to Epic E1000 Aircraft Maintenance Manual, P/N SK05000000, Chapter 77-40).
10. Close the ENG INST circuit breaker.
11. Connect external electrical power to the airplane (refer to Epic E1000 Aircraft Maintenance Manual, P/N SK05000000, Chapter 24-40).
12. Set the BATT 1 and BATT 2 switches to ON.
13. Perform the software reloading procedure (refer to section 6.3 of the latest revision of the G1000 NXi Line Maintenance Manual Epic E1000 AX, P/N: 190-03244-00).
14. Confirm the readings taken in Step 3 have not changed.

a. Nitrogen Pressure (N2PRES)	Current reading:
b. Fuel Pressure (FPRES)*	Current reading:
c. Oil Pressure (OIL PSI)*	Current reading:
d. Generator AMPS (GEN AMP)*	Current reading:
e. Alternator AMPS (ALTN AMP)*	Current reading:

*Reading should be 0 when the engine isn't running.

    f. If any readings are not correct, perform the applicable DAT Calibration (refer to Epic E1000 Aircraft Maintenance Manual, P/N SK05000000, Chapter 39-11).

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15. Confirm the aileron, elevator, and rudder trim neutral and full-travel indications match the applicable trim tab positions.

    NOTE: If Garmin GWX is installed, the aileron trim tab neutral position is 5°+/- 0.5° trailing edge down.

    a. If any indications are incorrect, perform the aileron, elevator, and rudder trim DAT Calibrations as needed (refer to Epic E1000 Aircraft Maintenance Manual, P/N SK05000000, Chapter 39-11).

16. Set the BATT 1 and BATT 2 switches to off.
17. Disconnect external electrical power from the airplane (refer to Epic E1000 Aircraft Maintenance Manual, P/N SK05000000, Chapter 24-40).

9 FIGURES AND TABLES:

N/A

10 WEIGHT AND BALANCE:

N/A

11 PUBLICATIONS AFFECTED:

N/A

12 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 Bulletin.

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: _____