



# Service Bulletin SB-0049

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

**Subject:** Right Bus-Bar Interference

**ATA-Code:** 24-60

**Labor:** 1 hour inspection, 4 hours if work is needed **Effectivity:** K003– K041

**Affected Model(s):** E1000 GX **Due:** Next annual inspection.

**Compliance:** Mandatory **Recurrence:** No

## 1 **BACKGROUND AND PURPOSE:**

On affected aircraft, it has been found that ACC 1 and ACC 2 in the right-hand circuit breaker panel may have fitment issues as designed.

This Service Bulletin contains instructions to rework the ACC 2 bus-bar, inspect ACC 1 bus-bar, and rework if needed to prevent contact.

## 2 **REFERENCES:**

Epic E1000 Aircraft Maintenance Manual P/N SK05000000

## 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 **APPROVAL:**

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

## 5 **TOOLS:**

<u>No.</u>	<u>Description</u>	<u>Qty</u>	<u>Epic Aircraft Supplied</u>	<u>Customer Supplied</u>
1.	Common hand tools.	AR	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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## 6 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.	MS51957-28	Screw, Pan Head, .138 x .375 Lg., Cres	2	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2.	NAS1149FN632P	Washer, Flat #6 x .032	2	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3.	PK25121019	Bezel, Crew headset	A/R	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.	AK23501001	Bose Headset Connector Assy	A/R	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5	Loctite 425	Threadlocking Adhesive	A/R	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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## 7 INSTRUCTIONS:

1. Read all instructions before beginning any work.
2. Set the BATT 1 and BATT 2 switches to OFF.
3. Remove all external electrical power from the airplane (refer to Epic E1000 Aircraft Maintenance Manual, PN SK05000000, chapter 24-40).
4. Disconnect ground wires from both batteries.

**WARNING:** Make sure power is cut off from bus-bar before any work is done on the aircraft.

5. Gain access to the right circuit breaker panel ACC 2 bus-bar (refer to Figure 1).
  - a. Remove right hand circuit breaker cover.

Note: Removal of crew headset bezel can result in damage to headset jack and bezel due to the Loctite thread locking adhesive used in assembly.

- b. Inspect for interference of ACC 1 and 2 bus bars
      - i. If no interference is found, reinstall removed components and sign off the Service Bulletin
      - ii. If an interference is found, proceed with the following steps.
    - c. Remove the screws and washers attaching the right circuit breaker overlay and backing plates to the instrument panel.
    - d. Remove the right circuit breaker overlay then carefully pull the circuit breakers and backing plate outwards.
    - e. Disconnect the circuit breaker panel electrical connectors.
    - f. Remove the right circuit breaker panel.

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6. Put the right circuit breaker panel on a suitable work surface.
7. Remove the screw, washers, and nut that attach the K2460110C-8 wire to the ACC 2 bus-bar tab. Discard the hardware.
8. Remove the screws, lock washers, and washers that attach the ACC 2 bus-bar to the circuit breakers.
9. Discard the screw and washer from the USB circuit breaker, retain the lock washer.
10. Remove the ACC 2 bus-bar from the right circuit breaker panel.
11. Modify the ACC 2 bus-bar as follows (refer to Figure 2 and Figure 3):
  - a. Remove the 90° tab from the ACC 2 bus-bar.
  - b. Put a 0.20" radius on the modified end of the bus-bar.
  - c. Apply solder to the reworked end of the bus-bar for corrosion protection.
12. Put the ACC 2 bus-bar in position on the right circuit breaker panel.
13. Install all screws and washers that attach the ACC 2 bus-bar to the circuit breakers, except for the USB circuit breaker.
14. Attach the K2460110C-8 wire to the USB circuit breaker using the MS51957-28 screw, NAS1149FN632P washer, and lock washer retained from the USB circuit breaker (refer to Figure 4).
15. Inspect ACC 1 bus-bar, if unaffected, proceed to step 24 (see Figure 5 for example of damage).
16. Remove the screw, washers, and nut that attach the K2460109C-8 wire to the ACC 1 bus-bar tab. Discard the hardware.
17. Remove the screws, lock washers, and washers that attach the ACC 1 bus-bar to the circuit breakers.
18. Discard the screw and washer from the PRESS CTRL 2 circuit breaker, retain the lock washer.
19. Remove the ACC 1 bus-bar from the right circuit breaker panel.
20. Modify the ACC 1 bus-bar as follows (refer to Figure 2 and Figure 3):

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- a. Remove the 90° tab from the ACC 1 bus-bar.
  - b. Put a 0.20" radius on the modified end of the bus-bar.
  - c. Apply solder to the reworked end of the bus-bar for corrosion protection.
21. Put the ACC 1 bus-bar in position on the right circuit breaker panel.
22. Install all screws and washers that attach the ACC 1 bus-bar to the circuit breakers, except for the PRESS CTRL 2 circuit breaker.
23. Attach the K2460109C-8 wire to the PRESS CTRL 2 circuit breaker using the MS51957-28 screw, NAS1149FN632P washer, and lock washer retained from the USB circuit breaker (refer to Figure 4).
24. Install the right circuit breaker panel as follows:
  - a. Connect the right circuit breaker panel electrical connectors.
  - b. Put the right circuit breaker panel and overlay in position on the instrument panel.
  - c. Install the screws and washers attaching the right circuit breaker panel and overlay to the instrument panel.
25. Connect external electrical power to the airplane (refer to Epic E1000 Aircraft Maintenance Manual, PN SK05000000, chapter 24-40).
26. Set the BATT 1 and BATT 2 switches to ON.
27. Make sure the USB charging ports are operational to test the bus-bar connection.
28. Set the BATT 1 and BATT 2 switches to OFF.
29. Remove all external electrical power from the airplane (refer to Epic E1000 Aircraft Maintenance Manual, PN SK05000000, chapter 24-40).

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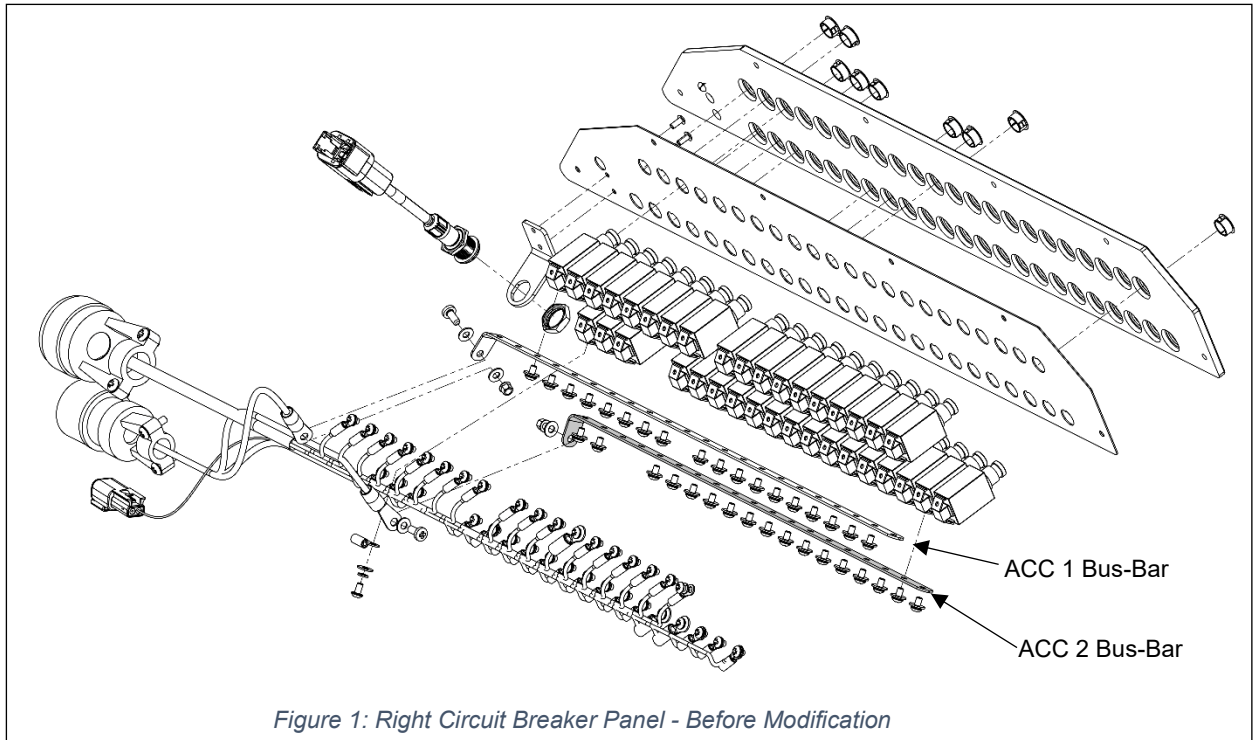
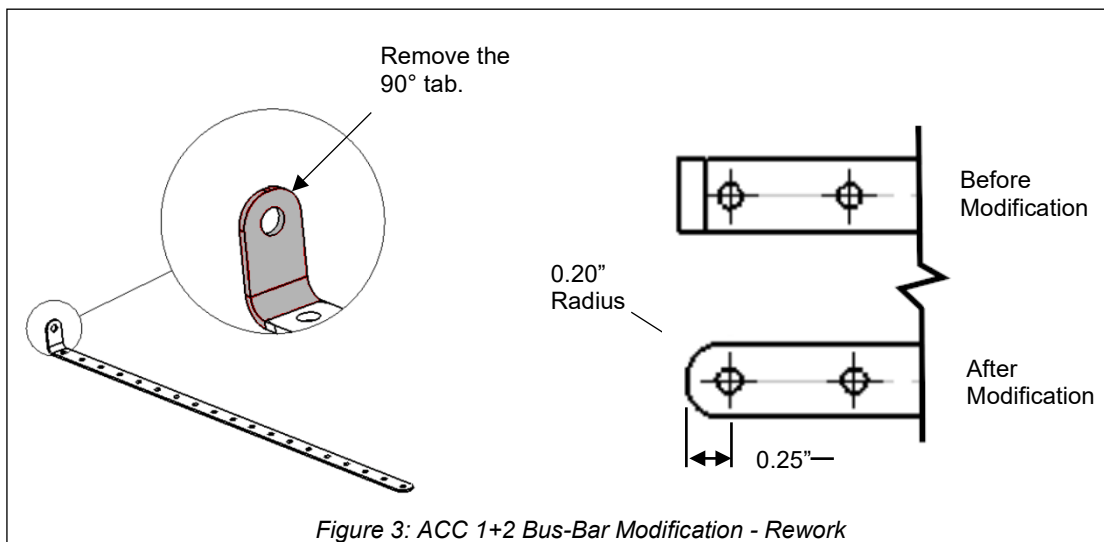
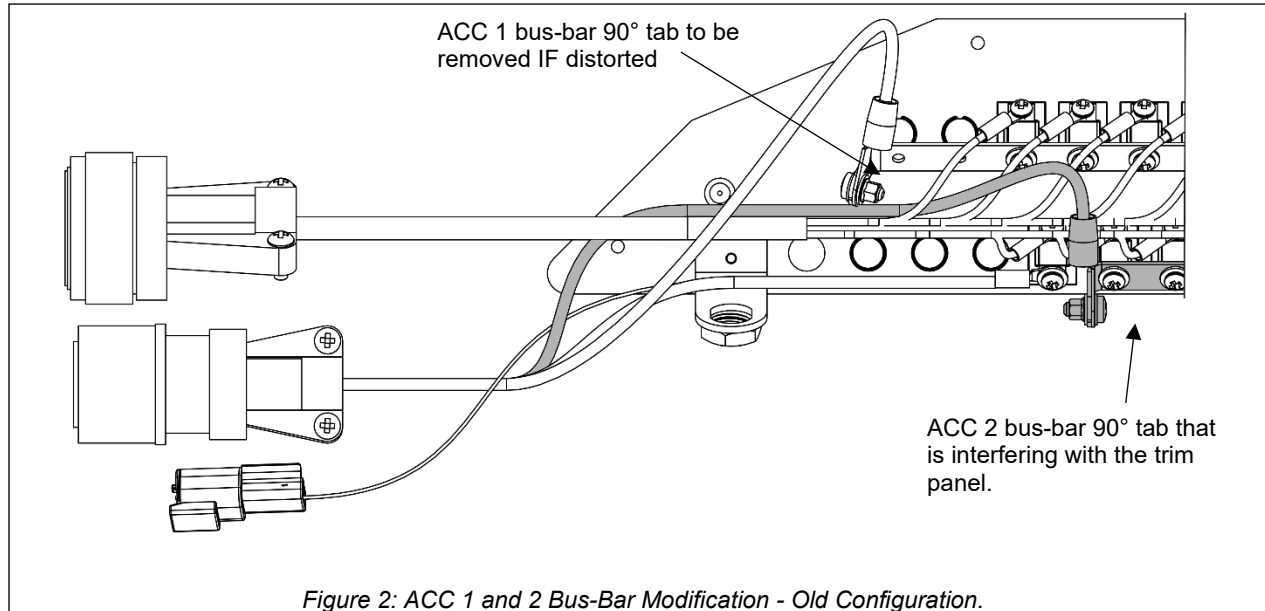


Figure 1: Right Circuit Breaker Panel - Before Modification

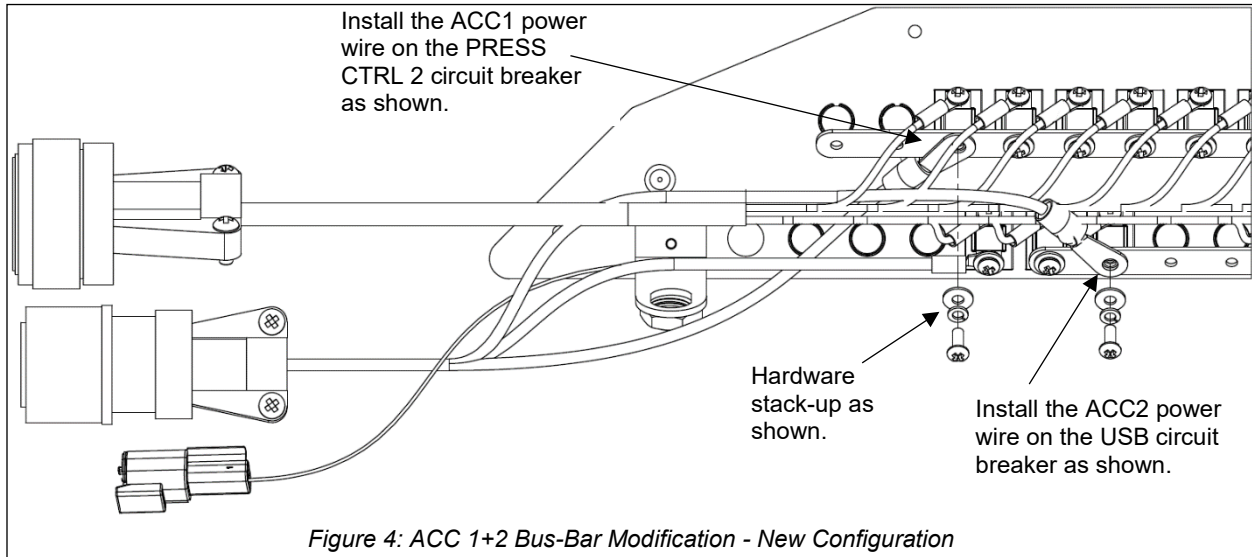
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*Figure 5: Damage Location and Example.*

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## 8 WEIGHT AND BALANCE:

Negligible

## 9 PUBLICATIONS AFFECTED:

Epic E1000 Illustrated parts Catalog P/N SK05000004

## 10 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](mailto: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: \_\_\_\_\_

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