

Number: SBA5X-23-03

Issued: 07 Feb 2020

SNS SUBJECT: 23-50 AUDIO INTEGRATING - Disable Non-Essential 3.5 mm Audio and Microphone Jacks

1. COMPLIANCE

Mandatory: Cirrus considers this Service Bulletin to be MANDATORY. The aircraft is prohibited from flight until this Service Bulletin is accomplished. If the aircraft must be flown to a repair facility, a ferry permit must be obtained from the FAA Flight Standards District Office. Compliance time begins upon receipt of this Service Bulletin.

Terminating action for this Service Bulletin is pending a resolution to be provided in the release of an upcoming Service Bulletin.

2. EFFECTIVITY

SF50 Serials 0005 thru 0176, 0178

3. APPROVAL

FAA approval has been obtained on all technical data in this Service Bulletin that affects type design.

Aircraft not operating under FAA requirements and regulatory oversight: It is the operator's responsibility to ensure that installation of this Service Bulletin has been accepted by the local airworthiness authority.

4. PURPOSE

As discussed in Service Advisory SA19-31, Non-Essential Interior Electrical Equipment Isolation, released 31 Dec 2020, Cirrus Aircraft was previously made aware of a cabin fire incident in an SF50 Vision Jet during ground operations. The operator observed smoke exiting from behind the right sidewall interior panel located behind Crew Seat 2 and forward of Passenger Seat 5. Investigation into this incident has now determined the probable root cause to be a potential malfunction of the headset amplifier and microphone interface circuit card assemblies for the 3.5 mm audio and microphone jacks. Until more information is known, the 3.5 mm audio and microphone jacks, characterized in the MMEL as non-essential equipment, should be disabled as a precaution.

5. DESCRIPTION

This Service Bulletin contains instructions to disconnect and remove the headset amplifier and microphone interface circuit card assemblies for the 3.5 mm audio and microphone jacks.

6. WARRANTY INFORMATION

Cirrus will cover all parts and labor costs for this Service Bulletin if the work is accomplished within the compliance time period and the work is performed at an Authorized SF5X Cirrus Service Center.

Warranty reimbursement is contingent upon all circuit card assemblies being returned to Cirrus.

7. MANPOWER REQUIREMENTS

6.0 man-hours

8. OTHER PUBLICATIONS AFFECTED

N/A

9. WEIGHT AND BALANCE

N/A

EFFECTIVITY:
SF50 Serials 0005 thru 0176, 0178

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10. MATERIAL INFORMATION

N/A

11. ACCOMPLISHMENT INSTRUCTIONS

- A. Set BAT 1, BAT 2, GEN 1, and GEN 2 switches to OFF positions.
- B. Remove pilot side panel. (Refer to AMM 25-10)
- C. Remove co-pilot side panel. (Refer to AMM 25-10)
- D. Remove LH lower panel. (Refer to AMM 25-10)
- E. Remove RH mid lower panel. (Refer to AMM 25-10)
- F. Remove RH aft lower panel. (Refer to AMM 25-10)
- G. Disconnect pilot headset amplifier and microphone interface circuit card assemblies.
 - (1) Locate pilot connectors behind pilot side panel, on back of storage pocket. (See Figure 01)
 - (a) P5479 MIC CCA
 - (b) P5431 AUDIO CCA
 - (2) Disconnect connectors from circuit card assemblies.
 - (3) Remove circuit card assemblies from aircraft.
 - (4) Cap and stow connectors.
 - (5) Label each connector "DO NOT CONNECT SYSTEM DISABLED PER SBA5X-23-03".
- H. Disconnect co-pilot headset amplifier and microphone interface circuit card assemblies.
 - (1) Locate co-pilot connectors behind co-pilot side panel, on aft side of storage pocket. (See Figure 02)
 - (a) P5484 MIC CCA
 - (b) P5432 AUDIO CCA
 - (2) Disconnect connectors from circuit card assemblies.
 - (3) Remove circuit card assemblies from aircraft.
 - (4) Cap and stow connectors.
 - (5) Label each connector "DO NOT CONNECT SYSTEM DISABLED PER SBA5X-23-03".
- I. Disconnect seat 3 and seat 6 headset amplifier and microphone interface circuit card assemblies.
 - (1) Locate seat 3 connectors left of seat 3, in forward area of inside wall of LH lower panel. (See Figure 03)
 - (a) P5393 MIC CCA
 - (b) P5433 AUDIO CCA
 - (2) Locate seat 6 connector left of seat 6, in middle area of inside wall of LH lower panel.
 - (a) P5436 AUDIO CCA
 - (3) Disconnect connectors from circuit card assemblies.
 - (4) Remove circuit card assemblies from aircraft.
 - (5) Cap and stow connectors.
 - (6) Label each connector "DO NOT CONNECT SYSTEM DISABLED PER SBA5X-23-03".
- J. Disconnect seat 4 and seat 7 headset amplifier and microphone interface circuit card assemblies.
 - (1) Locate seat 4 connector right of seat 7, on inside wall of RH aft lower panel in front of jack assembly. (See Figure 04)
 - (a) P5487 MIC CCA
 - (b) P5434 AUDIO CCA
 - (2) Locate seat 7 connector right of seat 7, in middle area of inside wall of RH aft lower panel.
 - (a) P5437 AUDIO CCA
 - (3) Disconnect connectors from circuit card assemblies.

- (4) Remove circuit card assemblies from aircraft.
 - (5) Cap and stow connectors.
 - (6) Label each connector "DO NOT CONNECT SYSTEM DISABLED PER SBA5X-23-03".
- K. Disconnect seat 5 headset amplifier and microphone interface circuit card assemblies.
- (1) Locate seat 5 connectors right of seat 5, on inside wall of RH mid lower panel on front side of seat 5 pocket. (See Figure 05)
 - (a) P5395 MIC CCA
 - (b) P5435 AUDIO CCA
 - (2) Disconnect connectors from circuit card assemblies.
 - (3) Remove circuit card assemblies from aircraft.
 - (4) Cap and stow connectors.
 - (5) Label each connector "DO NOT CONNECT SYSTEM DISABLED PER SBA5X-23-03".
- L. Install RH aft lower panel. (Refer to AMM 25-10)
- M. Install RH mid lower panel. (Refer to AMM 25-10)
- N. Install LH lower panel. (Refer to AMM 25-10)
- O. Install co-pilot side panel. (Refer to AMM 25-10)
- P. Install pilot side panel. (Refer to AMM 25-10)
- Q. Apply "INOP" label adjacent to all 3.5 mm audio and microphone jacks.

Note: Audio and microphone communications through 3.5 mm jack will not available to the pilot seat, co-pilot seat, and seats 3, 4, and 5. Function of the five modular LEMO jacks is not affected.

No audio capabilities will be available for seats 6 and 7.

Standard 0.25 inch microphone and phone jacks are provided at the pilot and co-pilot seats. The 3.5 mm jacks are not required for flight.

- R. Place removed circuit card assemblies in resealable plastic bag marked with ASN and return to Cirrus for warranty reimbursement.
- S. Complete airplane records by noting compliance with SBA5X-23-03 in Aircraft Logbook.

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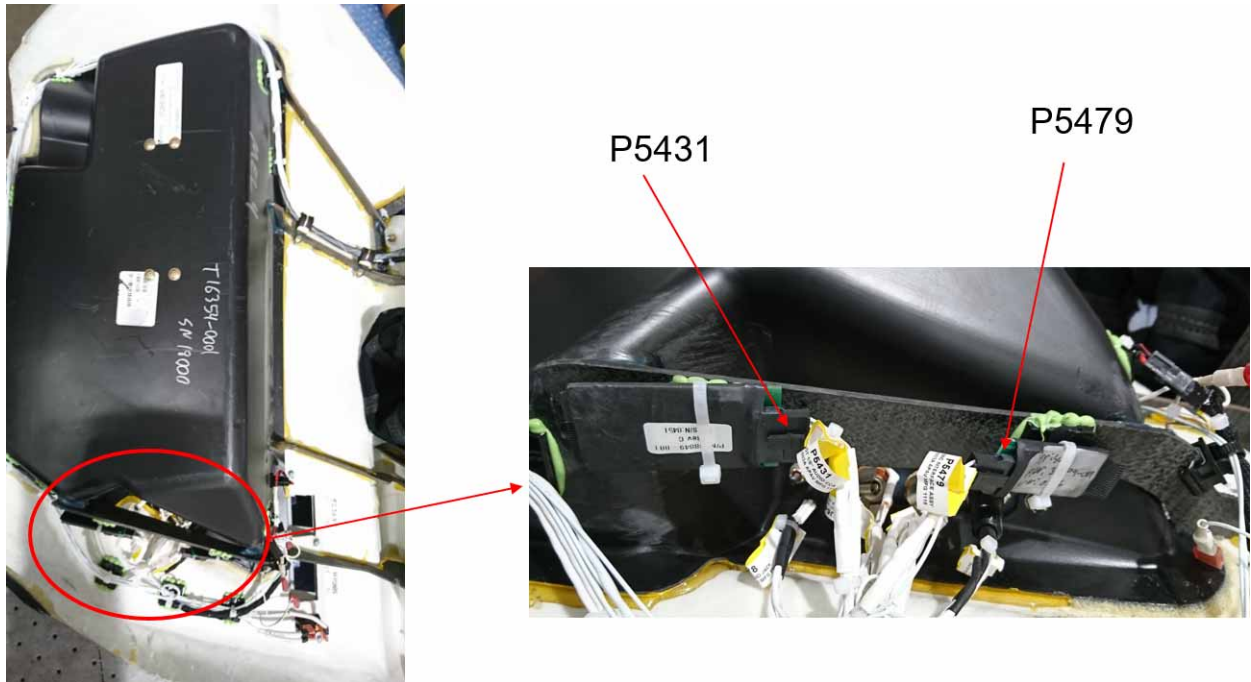


Figure 01
Pilot Connectors



Figure 02
Co-Pilot Connectors

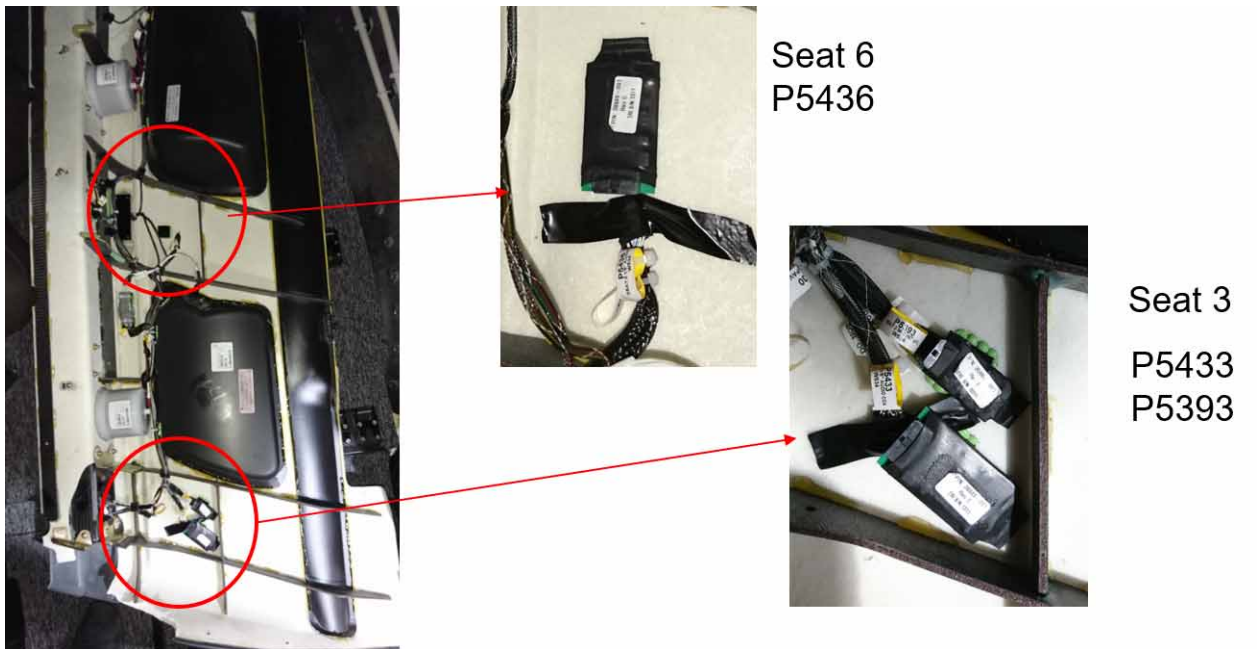


Figure 03
Seat 3 and Seat 6 Connectors

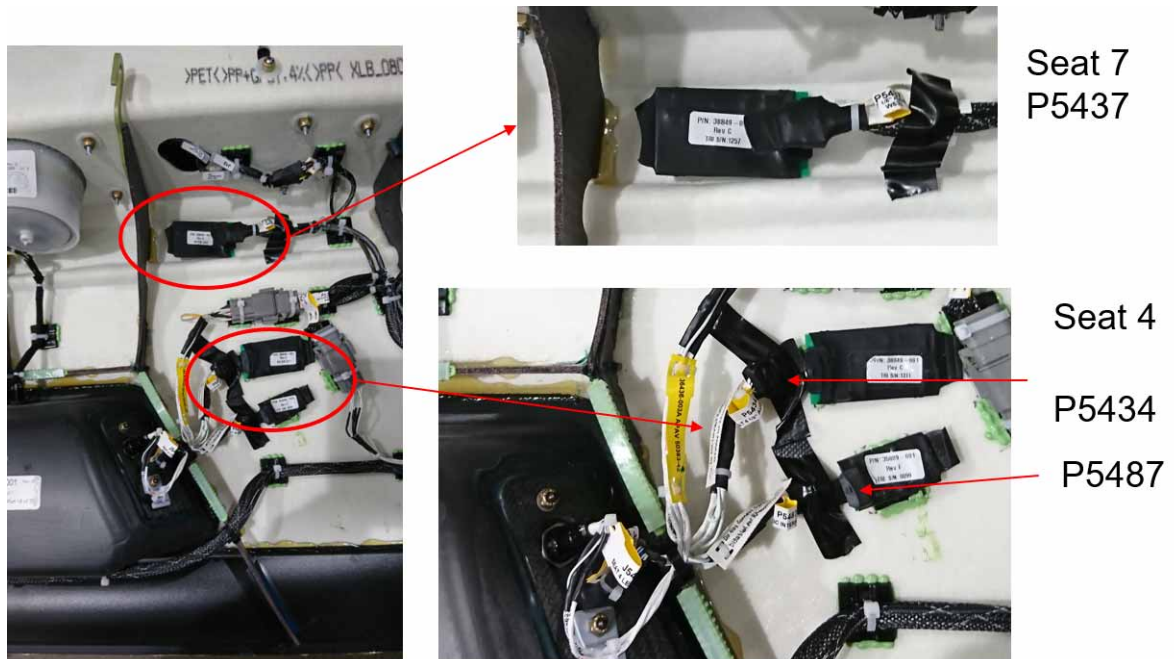


Figure 04
Seat 4 and Seat 7 Connectors

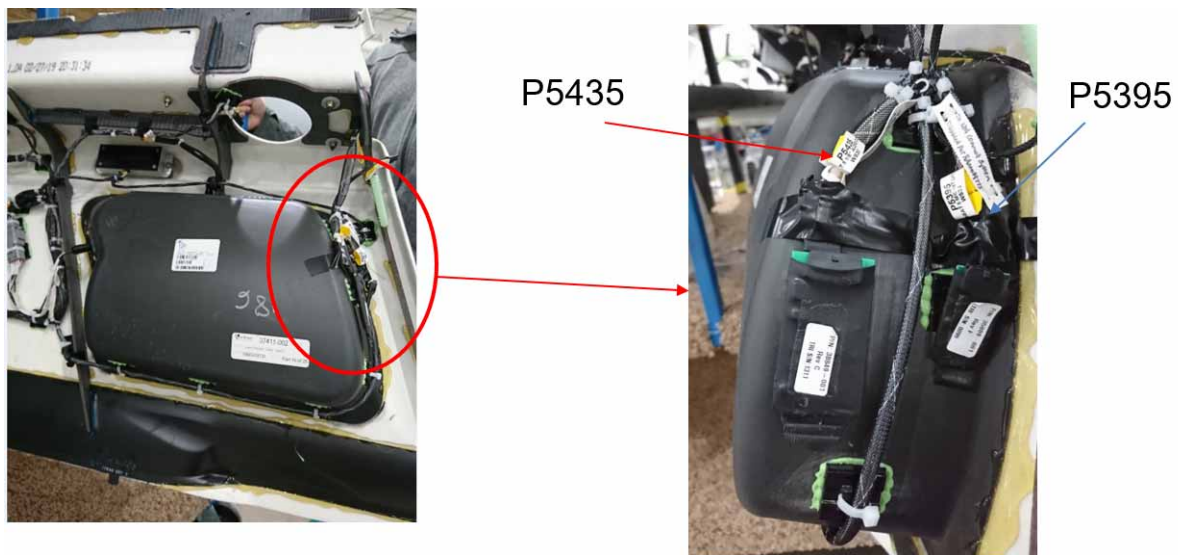


Figure 05
Seat 5 Connectors