

Number: SB 2X-30-06
Issued: October 02, 2009

SNS SUBJECT: 30-00 ICE AND RAIN PROTECTION - Possible Wire Harness Error on FIKI Metering Pumps

1. COMPLIANCE

Recommended: Accomplish this Service Bulletin On Condition of FIKI pump functionality. Miswired pumps are indicated by operation of the FIKI system where assigned operation of pumps is reversed.

2. EFFECTIVITY

Cirrus Design SR22 Serials 3003, 3310, 3326, 3403 thru 3485 w/ FIKI Ice Protection System.

3. APPROVAL

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

4. PURPOSE

During a routine inspection of airplanes equipped with the FIKI ice protection system, it was discovered on some aircraft that the wire harnesses of metering pump 1 and 2 were connected incorrectly and/or the wire harness on metering pump 2 was incorrectly identified as "J1391".

On affected aircraft, the FIKI system operation is not adversely affected. However, due to the swapped orientation of wire harnesses, metering pump 1 and metering pump 2 operate opposite to assigned functionality and could introduce misidentification during system troubleshooting.

5. DESCRIPTION

This Service Bulletin contains instructions for inspecting the wire harnesses of metering pump 1 and metering pump 2 for proper connection and identification. This Service Bulletin also provides instructions for rerouting the power connectors for both metering pumps and relabeling the wire harness on metering pump 2 as required.

6. WARRANTY INFORMATION

Part and labor cost for this Service Bulletin are at the owner's expense.

7. MANPOWER REQUIREMENTS

1.0 man-hour.

8. OTHER PUBLICATIONS AFFECTED

N/A

9. WEIGHT AND BALANCE

N/A

10. MATERIAL INFORMATION

N/A

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thru 3485 w/ FIKI Ice Protection System

11. ACCOMPLISHMENT INSTRUCTIONS

A. Acquire necessary tools, equipment, and supplies.

Description	P/N or Spec.	Supplier	Purpose
Cable Ties	-	Any Source	Secure wire harnesses as required.

- B. Remove key from ignition.
- C. Set BAT 1, BAT 2, and AVIONICS switches to OFF positions.
- D. Remove LH passenger seat. (Refer to AMM 25-10)
- E. Remove carpeting to expose access panel CF4L. (Refer to AMM 06-00)
- F. Remove cabin access panel CF4L. (Refer to AMM 06-00)
- G. Inspect order of operation for metering pumps.
 - (1) Identify installation locations of metering pump 1 and metering pump 2. (Refer to AMM 30-05)
 - (2) Set BAT 1 switch to ON position.
 - (3) Set ICE PROTECT power switch to ON position.
 - (4) To run metering pump 1, set ICE PROTECT mode switch to HIGH position.
 - (5) Inspect metering pump 1 for vibration evidence of operation.
 - (6) Set ICE PROTECT power switch to OFF position.
 - (7) Set ICE PROTECT mode switch to NORM position.
 - (8) To run metering pump 2, set PUMP BKUP switch to ON position.
 - (9) Inspect metering pump 2 for vibration evidence of operation.
 - (10) Set PUMP BKUP switch to OFF position.
 - (11) Set BAT 1 switch to OFF position.
- H. If inspection indicates correct order of metering pump operation, verify labeling for connectors.
 - (1) Verify labeling on metering pump 2 wire harness indicates "J1392".
 - (2) If labeling is incorrect, correct labeling on wire harness to read "J1392".
- I. If inspection indicates reversed order of metering pump operation, swap connectors.

CAUTION: To ensure metering pump flow rates will fall within specification after swapping connectors, Cirrus Design must be contacted prior to swapping connectors.

(1) Please use the following table to identify required information prior to calling:

ASN	
Pump#1 Serial No.	
Pump#2 Serial No.	
Pump#1 Mod No.	

- (2) Contact Cirrus Design at 1-800-279-4322 (International: 952-988-1940) for disposition.
- (3) Pull ICE PROTECT A and ICE PROTECT B circuit breakers.
- (4) Disconnect electrical connector from each metering pump.
- (5) Reroute electrical connectors to opposite metering pumps and secure to existing wire harnesses with cable ties.
- (6) Verify labeling on metering pump 2 wire harness indicates "J1392".

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- (7) If labeling is incorrect, correct labeling on wire harness to read "J1392".
 - (8) Connect electrical connector on wire harness "P1391" to metering pump 1 connector "J1391".
 - (9) Connect electrical connector on wire harness "P1392" to metering pump 2 connector "J1392".
 - (10) Reset ICE PROTECT A and ICE PROTECT B circuit breakers.
 - (11) Perform Operational Check - Ice Protection System. (Refer to AMM 30-05)
- J. Install cabin access panel CF4L. (Refer to AMM 06-00)
- K. Install carpeting. (Refer to AMM 25-10)
- L. Install LH passenger seat. (Refer to AMM 25-10)
- M. Complete airplane records by noting compliance with SB 2X-30-06 in Aircraft Logbook.

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STAMP



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