

SERVICE BULLETIN



Service Bulletin No.: D42L-28-02 Rev. 0

Date Issued: 30 May 2012

Title: Transfer Pump Circuit Breaker Change

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- 1. ATA Code:** 2810
- 2. Effectivity:** All DA42 aircraft with TCCA STC SA09-54 or FAA STC SA02725NY installed and with Auxiliary fuel tanks, without the DE-ICE system.
- 3. General:** This Service Bulletin (SB) addresses the replacement of the transfer pump (XFR PUMP) 5A breaker with a 7.5A breaker, when the DE-ICE system is not installed.
- 4. Compliance:** Compliance with this SB is mandatory.
- 5. Approval:** Engineering data referenced or contained in this SB is approved as part of the supplemental type design.
- 6. Labour:** Approximately 1.0 hours will be required to accomplish this SB.

This estimate is for direct labour performed by a technician and it does not include setup, planning, familiarization, cure time, part fabrication or tool acquisition.

7. Material:	Part Number	Description	Qty
	MS3320-7.5	Circuit breaker, 7.5A	1
	MS3367-4-9	Cable Tie	5

- 8. Special Tools:** None.
- 9. References:** DA42 L360 Aircraft Maintenance Manual, Document # D42L-AMM-001.
DA42 Series Airplane Maintenance Manual, Document # 7.02.01

10. Accomplishment Instructions

- 10.1 Disconnect the aircraft battery. Refer to AMM # 7.02.01 Chapter 24-31.
- 10.2 Remove the instrument panel cover. Refer to AMM # 7.02.01 Chapter 25-10.
- 10.3 Pull the Battery circuit breaker located on the right side of the instrument panel.
- 10.4 Disconnect wire 28008A20WH from XFR PUMP circuit breaker. Refer to Figure 1.

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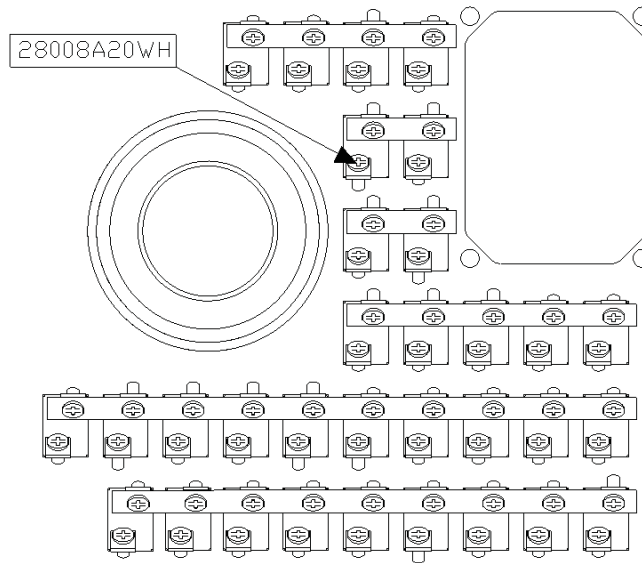


Figure 1

- 10.5 Remove the four mounting screws from the front of the circuit breaker EL panel and remove the air vent. Remove the EL panel. Refer to Figure 2.

NOTE: Cable ties may need to be cut and removed from the instrument panel harness to allow EL panel to be moved clear from circuit breaker nuts.

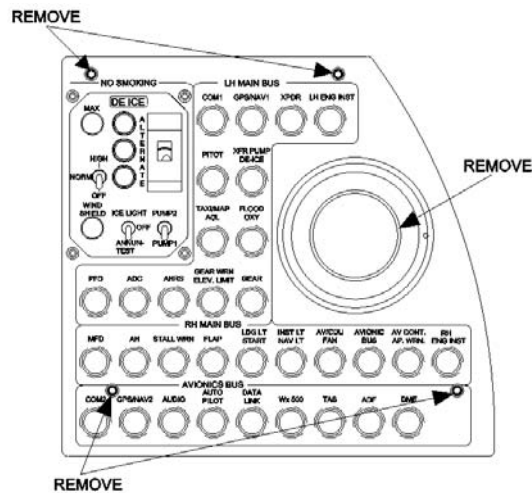


Figure 2

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- 10.6 Remove the 2 position bus bar from the XFR PUMP circuit breaker.
- 10.7 Remove the existing 5A circuit breaker and replace with the 7.5A circuit breaker (P/N MS3320-7.5).
- 10.8 Install the circuit breaker EL panel and air vent.
- 10.9 Secure the instrument panel harness with supplied cable ties (P/N MS3367-4-9), if the existing instrument panel cable ties were cut.
- 10.10 Install the 2 position bus bar to XFR PUMP circuit breaker.
- 10.11 Install wire 28008A20WH to XFR PUMP circuit breaker.
- 10.12 Remove all tools, equipment, and unwanted materials from the work area and inspect for foreign objects.
- 10.13 Install the instrument panel cover. Refer to AMM # 7.02.01 Chapter 25-10.
- 10.14 Connect the aircraft battery. Refer to AMM # 7.02.01 Chapter 24-31.
- 10.15 Do a power check of the Fuel Transfer (XFR) pumps.

NOTE: Do a Functional Test only when fuel is in the auxiliary fuel tanks.
 - 10.15.1 Push in Battery circuit breaker and turn Electrical Master switch to ON.
 - 10.15.2 Turn LH XFR pump switch ON. Make sure that the pump can be heard.
 - 10.15.3 Turn LH XFR pump switch OFF and turn RH XFR pump switch ON. Make sure that the pump can be heard.
 - 10.15.4 Turn RH XFR pump OFF and turn Electrical Master switch OFF.
- 10.17 Turn off power to the aircraft.
- 10.18 Make a log book entry that this SB has been incorporated.

11. Weight and Balance: The weight and balance is not affected by this SB.

12. Availability: Contact Diamond Aircraft.

13. Credit: None.

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To obtain satisfactory results, procedures specified in this service bulletin must be accomplished in accordance with accepted methods and current government regulations. Diamond Aircraft Industries Inc. cannot be responsible for the quality of work performed in accomplishing the requirements of this service bulletin. Diamond Aircraft reserves the right to void continued warranty coverage in the area affected by this service bulletin if it is not incorporated. If you no longer own the aircraft to which this service bulletin applies, please forward it to the current owner and send the name of the current owner to Diamond Aircraft Industries Inc. at the address below.

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