

# ALERT SERVICE BULLETIN



Service Bulletin No.: DA20-53-01A, Rev. 0

Date Issued: June 5, 1997

Title: Interference, Rudder Pedal/Foot

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DIAMOND AIRCRAFT HIGHLY RECOMMENDS COMPLIANCE

1. ATA Code: 5320

## PLANNING INFORMATION

2. Effectivity: DA20-A1 aircraft S/N 10002 to 10287

3. General: This service bulletin addresses the possibility of a jammed rudder control system. The toe of the pilots shoe could catch on the screw head(s) which mount the battery box to the firewall (See fig.1). The installation of skid plates and new mounting hardware prevent the above condition from occurring.

4. Compliance: Compliance is highly recommended upon receipt of this service bulletin. **DO NOT** intentionally spin the aircraft until this service bulletin is incorporated.

5. Approval: Engineering data referenced or contained in this bulletin is approved as part of the type design.

6. Labor: Approximately 1 hour will be required to accomplish this service bulletin. This estimate is for direct labor performed by a technician and it does not include setup, planning, familiarization, cure time, part fabrication, tool acquisition or lost time.

7. Material:	Part Number	Description	Qty
	20-5363-01-99	Skid, Plate	2
	MS 24694S99	Screw	2
	MS 21042-4	Nut	2
	AN960-416	Washer	2

The above items may be ordered as kit DA20-53-01AMK0.

Procure DP110 or equivalent 5 minute epoxy and PRC 1422B1/2 locally.

8. Special Tools: Not Applicable.

9. References: Doc #DA201 Maintenance Manual.

## 10. Accomplishment Instructions:

- 10.1 Remove the upper cowling.
- 10.2 Disconnect the battery cables, negative lead first.
- 10.3 Remove the battery from the battery box.

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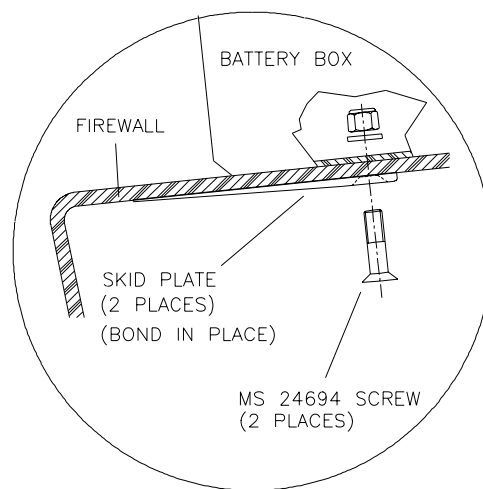
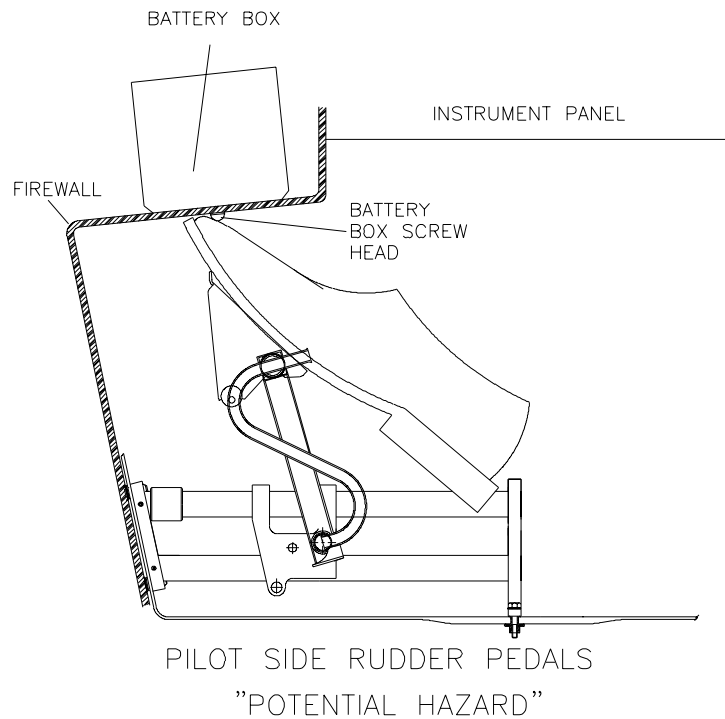
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## 10. Accomplishment Instructions: (continued)



PILOT SIDE RUDDER PEDALS  
"SKID PLATE INSTALLATION"

**Figure 1**

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## 10. Accomplishment Instructions: (continued)

- 10.4 Peel the PRC away from the nuts on the bottom of the battery box so that you are able to hold the nut with a wrench or socket.
- 10.5 Remove the existing battery box mounting hardware. Clean the old PRC from the bottom of the battery box.
- 10.6 Use acetone to remove the grease from the surface area where the skid plates are to be installed. Make sure the area of the bond has sufficient roughness. Use acetone to remove the grease from the top surface of the skid plates. Make sure the area of the bond has sufficient roughness.
- 10.7 Apply a sufficient amount of DP110 epoxy adhesive (or equivalent 5 minute epoxy cement) to the skid plate face opposite the countersink. Install the skid plates using the hardware provided to locate the holes. **Ensure that the skid plates are oriented in the forward direction as shown in figure 1.**  
Reinstall the battery box. Tighten the screws to pull the skid plates tight to the firewall. Ensure the head of the screw does not protrude below the surface of the skid plate.
- 10.8 Carry out an inspection/test to ensure that shoes cannot be caught between the rudder pedal and firewall.
- 10.9 Apply PRC 1422B1/2 sealant to the hardware in the battery box to create a seal against battery fluid leakage.
- 10.10 Reinstall the battery and connect the cables, positive lead first.
- 10.11 Install the upper cowling.
- 10.12 Make the appropriate log book entry.

11. Weight and Balance: Negligible

12. Electrical Load Data: Not Applicable

13. Price and Availability: Parts will be issued free of charge when a completed parts order form is received no later 90 days from the issue date of this service bulletin.

*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.*

*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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