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Gravity Probe B Relativity Mission

**INSERTION AND TESTING OF
INSULATING/CONDUCTING SHIM**

P0 447 Rev. -

December 8, 1998

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PROCEDURE P0447

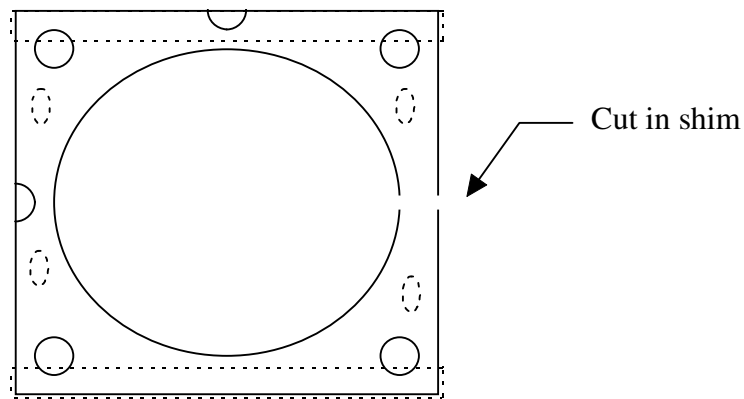
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Section 1 Scope

This procedure describes the insertion of the shim fabricated in P0 444 into the DMA subassembly, 25681. Subsequent electrical testing will test for both continuity and isolation between the ground plane and RF shield.

Section 2 Orientation of Shim

Align the two notches in the shim with the notches in the base. Open the gap in the shim with a slight twist and insert between the flex cable and the base.



Before starting electrical tests secure the assembly with nylon screws and brass nuts. Use a non-flight base behind the flex cable. This combination will prevent shorting through the fasteners.

Section 3 Visual Inspection: The Kapton should completely cover the edges of the flex cable.

Section 4 Electrical Tests

- a) Set ohm meter to 20 Megaohm scale and measure resistance between EMI shield and ground plane. The isolation should be greater than 20 Megaohm.
- b) Set ohm meter to 200 ohm scale and measure resistance from EMI shield to pin 20. This resistance should be less than 8 ohms.

This concludes insertion and testing.