STANFORD UNIVERSITY
W.W. HANSEN EXPERIMENTAL PHYSICS LABORATORY
GRAVITY PROBE B, RELATIVITY GYROSCOPE EXPERIMENT
STANFORD, CALIFORNIA 94305-4085

UPGRADE GMA WIRING HARNESS to REV A

GPB SCIENCE MISSION PROCEDURE

14 March, 2000

PREPARED _____ _____
D. Welsh, Test Engineer Date

APPROVED _____ _____
D. Bardas, Integration Manager Date

APPROVED _____ _____
D. Ross, Quality Assurance Date

APPROVED _____ _____
S. Buchman, Program Manager Date

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1 SCOPE

This procedure is used to upgrade the GMA wiring harness to the rev A status by replacing the 14 connectors for the pressure transducers.

1.1 Acronyms

The following acronyms may be used in this document

- QA Quality Assurance

2. REFERENCES

2.1 Plans and Procedures

N/A

2.2 Drawings

GMA Harness 26202 Rev A
Gas Management Assembly 25110 Rev B

2.3 Specifications

LAC 3200

3 GENERAL REQUIREMENTS

ONR REPRESENTATIVE AND QA TO BE NOTIFIED PRIOR TO BEGINNING THIS PROCEDURE

3.1 Environmental Requirements

3.1.1 Cleanliness

A normal lab environment is appropriate for this assembly

3.1.2 Magnetic Contamination

N/A

3.1.3 Electrostatic Discharge Control

N/A

3.2 Personnel

3.2.1 Technician

The technician shall be Dan Welsh or an alternate that he shall designate. The technician has overall responsibility for the implementation of this procedure and shall sign off the completed procedure and relevant sections within it.

3.3 Safety

N/A

3.4 Quality Assurance

This assembly will be conducted on a formal basis to approved and released procedures. The QA program office shall be notified of the start of this procedure. A Quality Assurance Representative, designated by D. Ross shall be present during the procedure and shall review any discrepancies noted and approve their disposition. Upon completion of this procedure, the QA Program Engineer, D. Ross or her designate, will certify her concurrence that the effort was performed and accomplished in accordance with the prescribed instructions by signing and dating in the designated place(s) in this document. Discrepancies will be recorded in a D-log or as a DR per Quality Plan P0108.

3.5 Red-line Authority

Authority to red-line (make minor changes during execution) this procedure is given solely to the technician or his designate and shall be approved by the QA Representative.

4 REQUIRED EQUIPMENT

4.1 Tools and Materials

The following tools and Materials will be available:

Qty	TOOLS AND MATERIALS REQUIRED	PART/DRAWING #	REV:
14	Connector, 6S	MS3476L10-6S	
14	Backshell, Connector	M85049/52-1-10N	
1	Crimping Tool		
1	Locator, Crimping Tool		
1	Wire Stripper		

5 HARNESS MODIFICATION.

5.1 Connector removal P

Remover the 14 connectors associated with the pressure transducers as identified by

SP1, SP2, SP3A, SP3B, SP4, SP5, SP6, SP7, SP8, SP9, CP1, CP2, CP3, CP4

5.2 Install pins P

5.3 Strip wires and crimp pins per LAC 3200

5.4 Inspect Crimps

5.4.1 Inspection to inspect crimps per Lac 3200 I

5.5 Install Connectors and Backshells P

5.6 Test the completed wire harness per note 9, dwg 26202 P

5.7 QA Final Inspection QA

5.8 Q.A. INSPECT ASSEMBLY COMPLETE QA

6 PROCEDURE COMPLETION

The results obtained in the performance of this procedure are acceptable:

Technician _____ Date _____

Discrepancies if any:

The information obtained under this assembly and test procedure is as represented and the documentation is complete and correct:

ITD _____ Date _____

Test procedure is as represented and the documentation is complete and correct:

QA Representative _____ Date _____

QA Program Engineer_____ Date _____

Copy discrepancies to D-Log and open Discrepancy Reports when required.

7 DATA BASE ENTRY

The following data shall be entered into the GP-B Data Base:

a) Name, number and revision of this procedure
b) An electronic copy of this document
c) A copy of the “as-built” procedure with data and pictures, when completed.