

E01-SAA09GS05-003
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REV. BB/L: 72.60
SYS: ECS/SLF/SLS

SEP 15 1993

Critical Item: Blower Starter Assembly
Find Number: K1
Criticality Category: 1B

<u>SAA No:</u>	09GS05-003	<u>System/Area:</u>	ECS/SLF/SLS
<u>NASA</u>		<u>PMN/</u>	S70-0534/
<u>Part No:</u>	N/A	<u>Name:</u>	Portable Purge Unit
<u>Mfg/</u>	General Electric Company	<u>Drawing/</u>	
<u>Part No:</u>	CR232G, Open Transition	<u>Sheet No:</u>	79K06061/1

Function: Provides means to start and maintain operation of blower motor.

Critical Failure Mode/Failure Mode No: No output. FM No. 09GS05-003.013

Failure Cause: Open/shorted coil, contacts fail open.

Failure Effect: Loss of blower air flow results in loss of purge to Orbiter compartments. Loss of ability to monitor purge air for leaks. Possible loss of life or vehicle during a hazardous condition such as leakage of hazardous fluids or gases.

ACCEPTANCE RATIONALE

Design:

- The blower starter assembly is operated within criteria specified by 79K05733 (Performance, Design, Fabrication, and Testing of the Portable Purge Unit sec.3.3.8). Rated at 300 hp, 600V; operated at 200 hp, 480V.
- WYE-DELTA Reduced Voltage Starter.

Test:

- The OMRSD, File VI requires that operation of the purge unit is verified prior to each use.
- The blower starter assembly is functionally tested quarterly for proper operation per OMI No. V6C72 (Preventive Maintenance, Portable Purge Unit).

Inspection:

- The OMRSD, File VI requires that the electrical elements are inspected annually for:
 - loose or missing hardware
 - corrosion
 - signs of arcing or shorts

Attachment
S050234BV
sheet 2 of 3

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Failure History:

- No PRACA failure history identified.
- No GIDEP failure history identified.

Operational Use:

- There is nothing that can be done immediately to mitigate the effect of the failure.
- The purge unit is monitored for any indication of malfunction. If any anomalies are observed, appropriate steps are taken to repair or replace the item.

Attachment
S050234BV
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