

System: SRMS

Subsystem: MECHANICAL AFM SUB-SYSTEM

Assembly Desc: THERMAL SYSTEM

Part Number(s): 51140J1657-1 H 51140J1657-3 H 51140J1657-5 H

Name	Part Number(s)	Qty	Sheet No.	Schematic No.
Item: THERMISTOR	SG459/001-001 A	12		
Function: THERMISTOR	PROVIDES TEMPERATURE DATA ON CRITICAL COMPONENTS.			

Failure Mode: THERMISTOR FAILS READING HIGH/LOW.

H/W	Func.	Screen	Failures
Criticality:	3	1R	

Mission Phase: Orbit

- Cause(s): THERMISTOR
- (1) HIGH : DECREASE IN RESISTANCE.
 - (2) HIGH : SHORT CIRCUIT.
 - (3) LOW : INCREASE IN RESISTANCE.
 - (4) LOW : OPEN CIRCUIT.

Failure effect on unit/end item: TEMPERATURE DATA IS NOT REPRESENTATIVE OF ACTUAL COMPONENT TEMPERATURE.

Worst Case: NO EFFECT ON CREW/VEHICLE OR MISSION.

Redundant Paths: TWO HEATER THERMOSTATS.

Failure Detection: TEMPERATURE CAUTION MAY BE ANNUNCIATED.

Corrective Action: IF CRADLED, TURN ON BOTH SYSTEMS.

Time to Effect: Immediate

Time to Correct: Hours

Hazard/Remarks: SUBSEQUENT FAILURE OF HEATER CCT MAY CAUSE ARM TO EXCEED OPERATIONAL LIMITS WITHOUT DETECTION.

Approvals:

Functional Group	Name	Position	Telephone	Date Signed	Status
Systems Engineer	*****			11Sep86	Signed
Reliability	*****			11Sep86	Signed
Program Management Offi	*****			11Sep86	Signed
Customer	*****			11Sep86	Signed