

SUBSYSTEM CCTV : : PREPARED BY M. Kraville
 UNIT TVC/MLA : : DATE 8/16/86
 ASSY. DWG. 2294819-506, 508/2307088-503 : : REVISED 7-17-87
 QUANTITY/LOCATION 1/MULTIPLE (CARGO BAY STACK) : : SHUTTLE CCTV FAILURE MODE & EFFECTS ANALYSIS

FUNCTION: The TVC and attached color lens assembly will provide a video signal that contains field-sequential color information. The green color field will be synchronized such that it follows a color flag pulse that occurs every third field during the vertical blanking interval.

ITEM	FAILURE MODE	FAILURE CAUSE	FAILURE EFFECT ON END ITEM	FAILURE DETECT FLIGHT/GROUND	CORRECT ACTION TIME AVAIL/REQ	CRIT'Y	HAZARDS/REMARKS
2.3.B.1	Filter wheel synchronous motor has stopped rotating.	<u>TVC</u> <u>A6 Power On/Off.</u> <u>Input Voltage Prereg.</u> <u>Output Voltage Reg.</u> <u>A7 DC-DC Converter.</u> <u>Primary Osc/Driver.</u> <u>Secondary Rect/Filter</u> <u>A13 Master Oscillator</u> <u>MLA</u> <u>A3 Color Wheel Drive</u> <u>Gear Train Failure.</u> <u>Motor Failure.</u>	Possible loss of video information due to filter wheel blanking bar stopping within lens FOV. <u>Worst Case:</u> Loss of mission critical video.	<u>FLT</u> (1) Picture on IVM has wide horizontal bar that appears black and contains no video information. (2) Typical flicker on the IVM that is associated with a camera is no longer present. <u>END</u> Same as FLT. (3) Scan convertor is unable to synchronize properly.	None	2/2	
			<u>Worst Case (if video is not mission critical, for B & C cameras only):</u> Unable to verify FLD door aft bulkhead latches are closed.	Same as above	None.	3/1R	

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 ATTACHMENT -
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