

SUBSYSTEM	CCTV	SHUTTLE CCTV FAILURE MODE & EFFECTS ANALYSIS	PREPARED BY	M. Kravitz
UNIT	TVC/CLA		DATE	8/16/86
ASSY. QMG.	2294819-506, 508/2294821-503		REVISED	2-17-87
QUANTITY/LOCATION	1/MULTIPLE (CARGO BAY STACK)			

FUNCTION: The TVC and attached color lens assembly will provide a video signal that contains field-sequential color information. The green color 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 EMD ITEM	FAILURE DETECT FLIGHT/GROUND	CORRECT ACTION TIME AVAIL/REQ	CRIT'Y	HAZARDS/REMARKS
2.2.8.1	Filter wheel synchronous motor has stopped rotating.	<u>TVC</u> <u>A6</u> Power On/Off. Input Voltage Pre-reg. Output Voltage Reg.  <u>A7</u> DC-DC Converter. Primary Dsc/Driver. Secondary Rect/Filter  <u>A13</u> Master Oscillator  <u>CLA</u> <u>A3</u> Color Wheel Drive. Gear Train Failure. Motor Failure.	Possible loss of video information due to filter wheel blanking bar that stops within lens FOV.  <u>Moral Case:</u> Loss of mission critical video.	FLT (1) Picture on TVM has wide horizontal bar that appears black and contains no video information. (2) Typical flicker on the TVM that is associated with a color camera is no longer present. Same as FLT. (3) Scan converter is unable to synchronize properly.	None	2/2	
			<u>Moral Case (if video is not mission critical, for B &amp; C cameras only):</u> Unable to verify PLD door aft bulkhead latches are closed.	Same as above	None. (Usage of EVA tools is available.)	3/EM	

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 ATTACHMENT \*  
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