

SUBSYSTEM CCTV
 UNIT TVC/MIA
 ASSY. ORNG. 7294019-506, 508/2307080-503
 QUANTITY/LOCATION 1/MULTIPLE (CARGO BAY STACK)

SHUTTLE CCTV FAILURE MODE
& EFFECTS ANALYSIS

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FUNCTION: Provide a video output signal from the TVC to the VSU/FUN.

ITEM	FAILURE MODE	FAILURE CAUSE	FAILURE EFFECT ON END ITEM	FAILURE DETECT FLIGHT/GROUND	CORRECT ACTION TIME AVAIL/REU	CRIT'Y	HAZARDS/REMARKS
2.3.3.1	Time base errors (jitter) in the synchronization information on the video output line. Video information is present and contains the same time base errors.	TVC A1 Sync Generator Clock Divider Chain Phase-Locked Loop A2 Camera timing logic A3 Master Oscillator TVC Heaters	Worst Case: Degraded video.	FLT/GND Monitor picture erratic and jitters. Picture may appear to roll.	None Keep TVC powered for a minimum of 30 minutes. Monitor picture may appear erratic; circuitry restores upon power turn-on; after a thermal cold exposure. After a period of time the monitor display will appear normal.	2/2	
			Worst Case if video is not mission critical, for H & C cameras only): Unable to verify FIB door aft bulkhead latches are closed.	Same as above	None. (Usage of EVA tools is available.)	3/ER	

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 ATTACHMENT -
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