

SUBSYSTEM CCTV
 UNIT TBC/MRA
 ASSY. DWG. 2294819-506, SDB/2294820-502
 QUANTITY/LOCATION 1/MULTIPLE (CARGO BAY STACK)

SHUTTLE CCTV FAILURE MODE
& EFFECTS ANALYSIS

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 DATE 8-19-86
 REVISED 2-12-87

FUNCTION The lens assembly will respond to commands received from the TBC and provide control to the motion functions of zoom, focus, and iris.

ITEM	FAILURE MODE	FAILURE CAUSE	FAILURE EFFECT ON EMB (REN)	FAILURE DETECT FLIGHT/GROUND	CORRECT ACTION TIME AVAIL/REQ	CRIT'Y	HAZARDS/REMARKS
2.1.6.1	Lens motion functions of zoom, focus, and iris, do not respond to commands. (Electrical failure)	:PRA :A) Stepper Motor Drive. :A2 Power Supply. : Command Receivers.	:Inability to control focus, zoom, or iris. : :Worst Cases :Loss of mission :critical video.	:FLT/GRD :{I} Picture on TVM:the zoom or focus does not change in response to a lens motion command.	:None if failure is: :function. Should the iris function fail in the automatic mode a manual iris command should be issued to determine if control may be restored in the manual configuration.	2/2	
			:Worst Case If video is not mission critical, (for B & C cameras only): Unable to verify PLM door soft bulbhead latches are closed.	Same as above	None. (Usage of EVA tools is available.)	3/1R	

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 ATTACHMENT -
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