

8.5 FMEA Number - 04-1

- o Date 9-12-86
- o Revision - N/C
- o System - Audio
- o Assembly - Hand-Held Microphone
- o Part Number - SED16101310-305
- o Item Name - Interface Cable
- o Reference Designation - None
- o Quantity per Assembly - 1
- o Function - Carries the audio signal and "transmit/intercom" control functions from the microphone amplifier and switches to the audio system
- o Failure Mode - Open or short circuit of cable; loss of "transmit/intercom" activate function or of audio signal
- o Failure Cause - Broken wire or wire insulation due to abnormal stress or bending
- o Mission Phase - On-Orbit
- o Failure Effect on End Item - Loss of communication on one or both the intercom or air-to-ground communication
- o Failure Effect on Interface - None
- o Failure Effect on Mission - None
- o Failure Effect on Crew - None
- o Failure Effect on Vehicle - None
- o Failure Detection on Ground - Audio Evaluation Test or voice test
- o Failure Detection during Flight - Voice Test
- o Correcting Action - Use spare unit or VLHS
- o Criticality (Hardware/Functional) - 3/1R
- o Time Required to take Corrective Action - Estimated 5 minutes
- o Time Available to take Corrective Action - Variable
- o Remarks/Hazards - The interface cable is made up of AWG 29 gage conductors for good flexibility, but are therefore fragile and susceptible to breakage. The outer cable sleeve is a woven Teflon material (Gortex) and acts as a strain relief for the cable. A short between the transmit/intercom control signal and return and/or shield would result in continuous output (hot Mic) on one or both air-to-ground and/or intercom channels.

380210W  
ATTACHMENT -  
Page 10 of 12

Page 8  
10/2/86  
REV. N/C