

8.2 FMEA Number - 01-2

- 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 - Microphone
- o Reference Designation - None
- o Quantity per Assembly - 1
- o Function - Receives user's voice inputs and transforms to electrical signal
- o Failure Mode - Mechanical failure of microphone or its boom; loss of voice transmission
- o Failure Cause - Breaking of microphone housing or boom by mishandling
- o Mission Phase - On-Orbit
- o Failure Effect on End Item - Loss of 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 - Visual inspection and/or Audio Evaluation Test
- o Failure Detection during Flight - Visual inspection and/or 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 microphone housing and boom are somewhat fragile. The boom is meant to be semi-flexible so that it can withstand accidental bending, but it can only stand a certain amount before the tube crimps and possibly damages the microphone wiring.

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