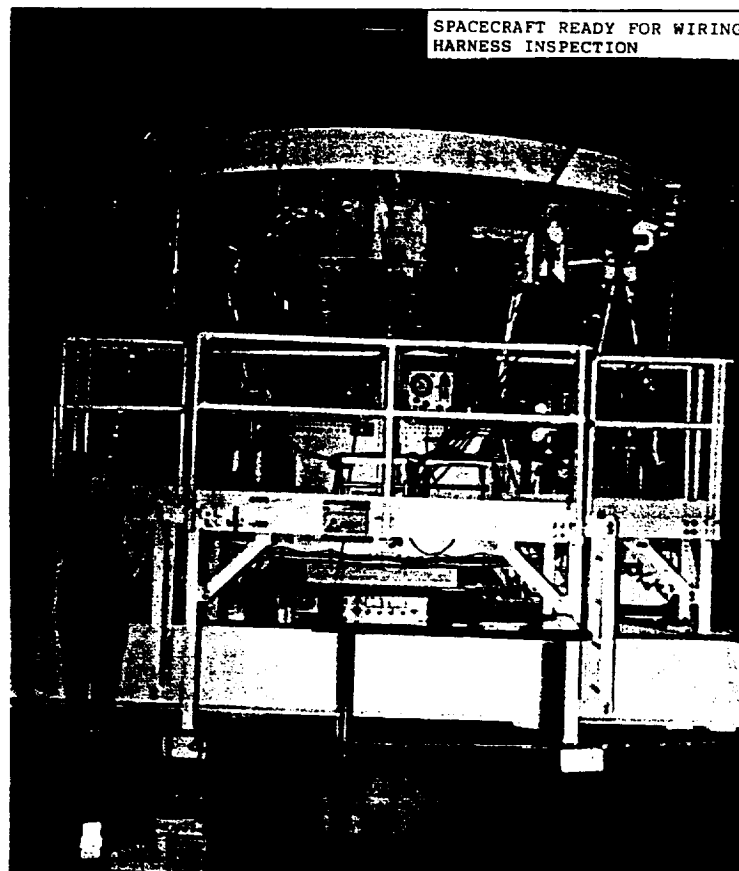


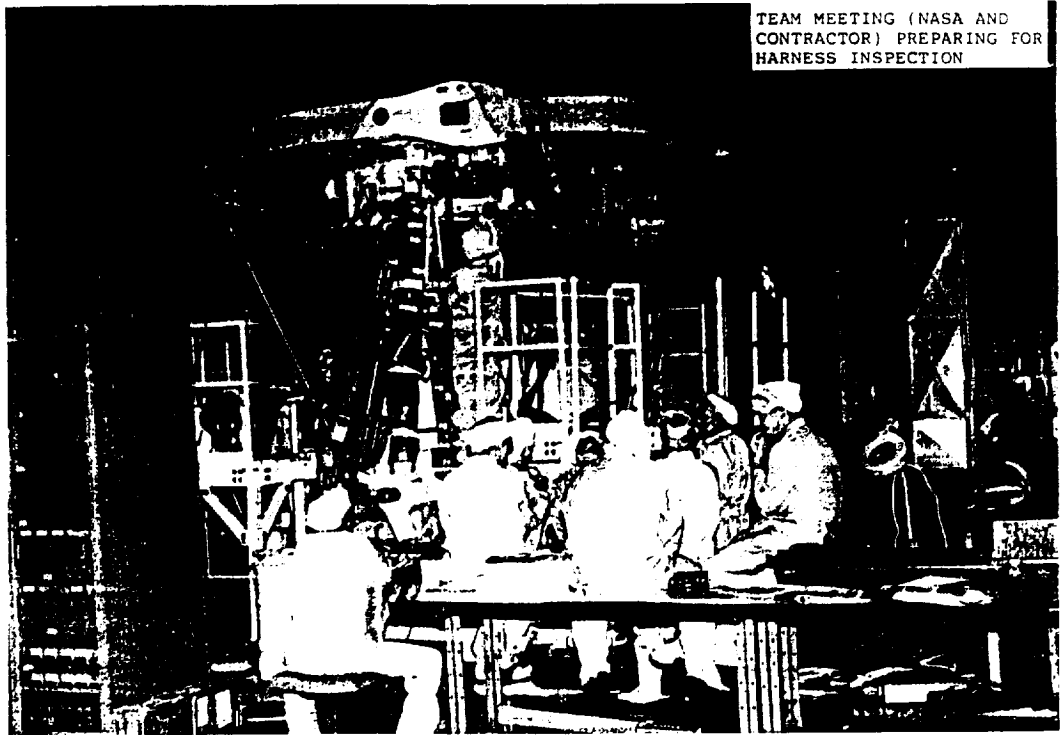
MSFC INSPECTIONS OF INSTALLED POLYIMIDE WIRE

Joe C. Landers
NASA George C. Marshall Space Flight Center
Marshall Space Flight Center, Alabama

MSFC INSPECTIONS OF
INSTALLED POLYIMIDE WIRE HARNESSSES

- AN ALERT WAS ISSUED BECAUSE OF THE ARC-TRACKING POSSIBILITIES OF THIS TYPE OF WIRE
- MSFC UNDERTOOK A PROGRAM TO TRY TO ENHANCE THE SAFETY AND RELIABILITY OF THESE HARNESSSES
- ONE ELEMENT OF THIS PROGRAM WAS INSPECTION OF INSTALLED WIRING HARNESSSES
- PHOTOGRAPHS WILL BE PRESENTED SHOWING THE NEED FOR SUCH INSPECTIONS

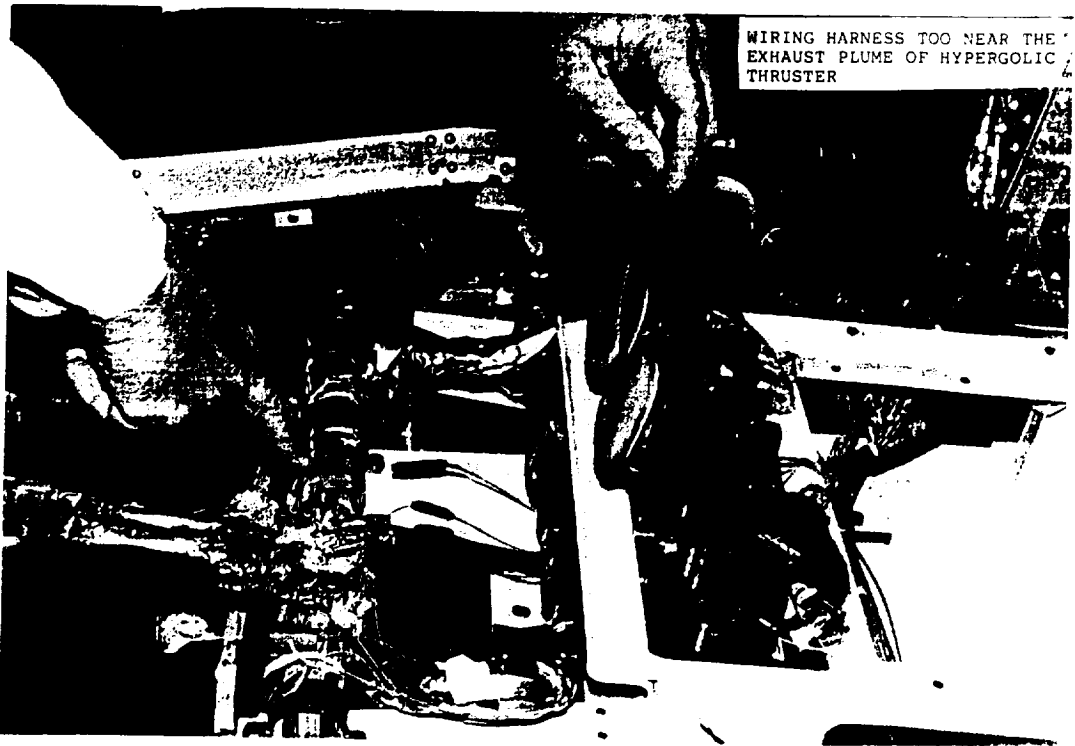




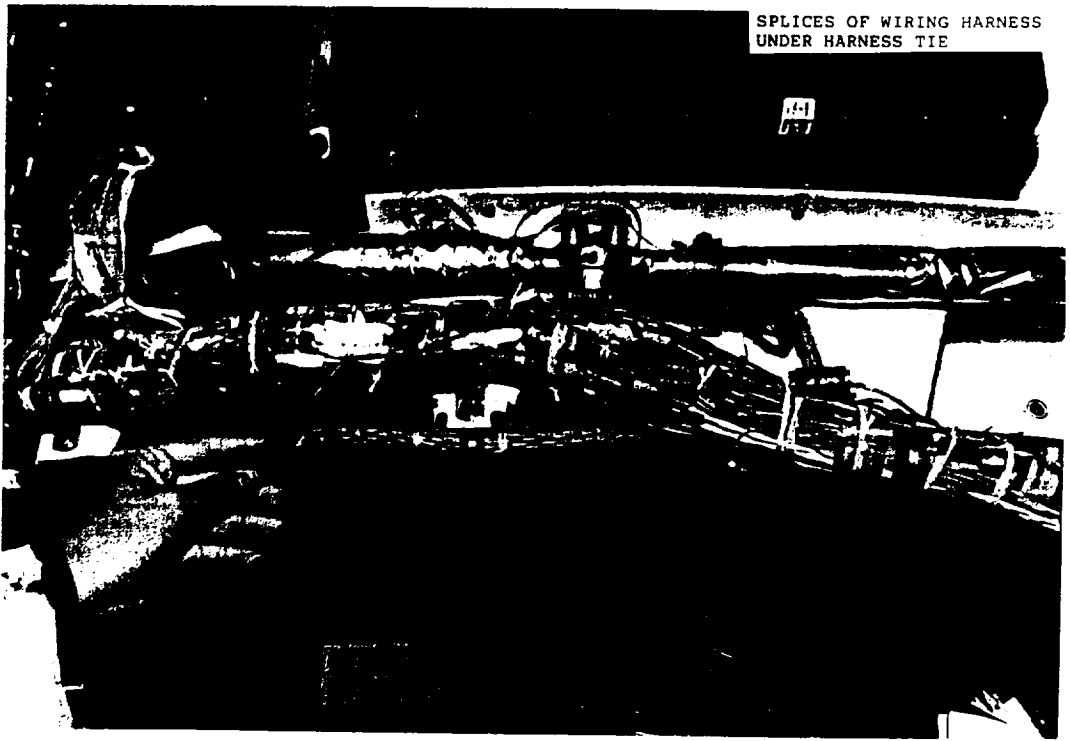
TEAM MEETING (NASA AND CONTRACTOR) PREPARING FOR HARNESS INSPECTION



WIRING HARNESS COMPRESSED UNDER PROPELLANT LINE



WIRING HARNESS TOO NEAR THE
EXHAUST PLUME OF HYPERGOLIC
THRUSTER

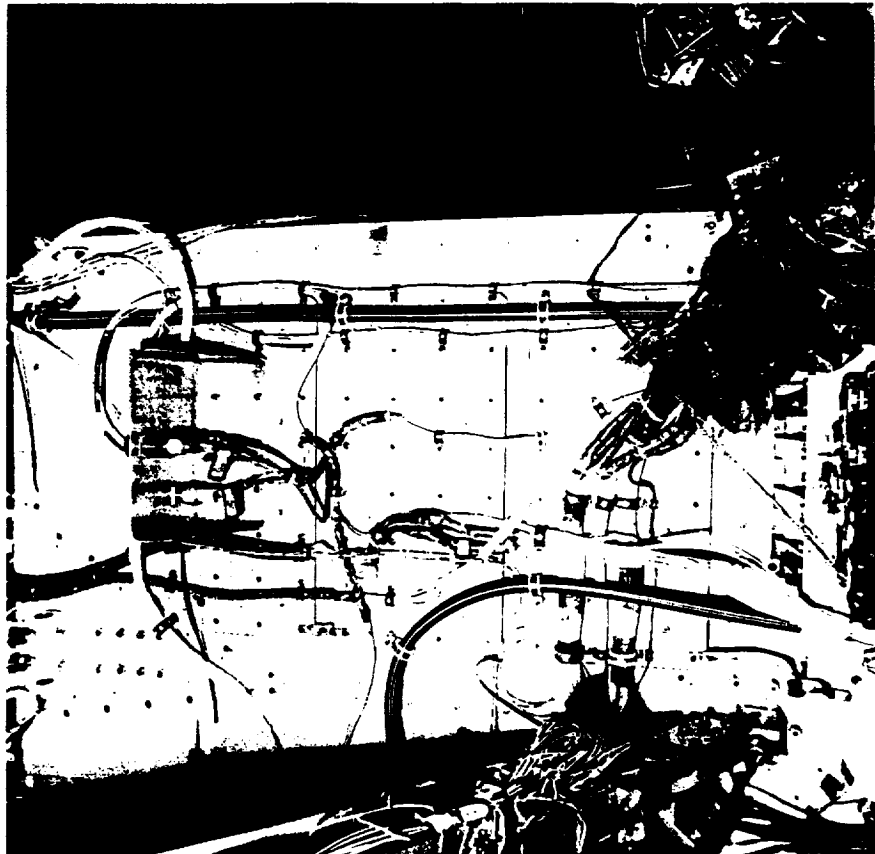


SPICES OF WIRING HARNESS
UNDER HARNESS TIE

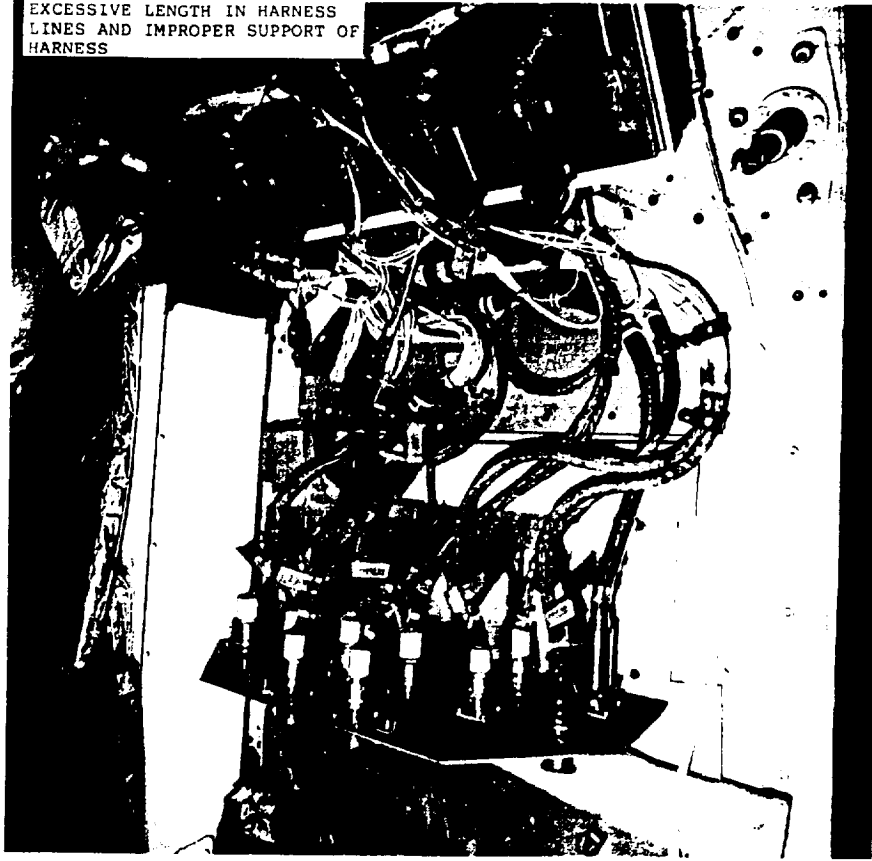
BACK SIDE OF HARNESS RUBBING
AGAINST SHARP EDGE



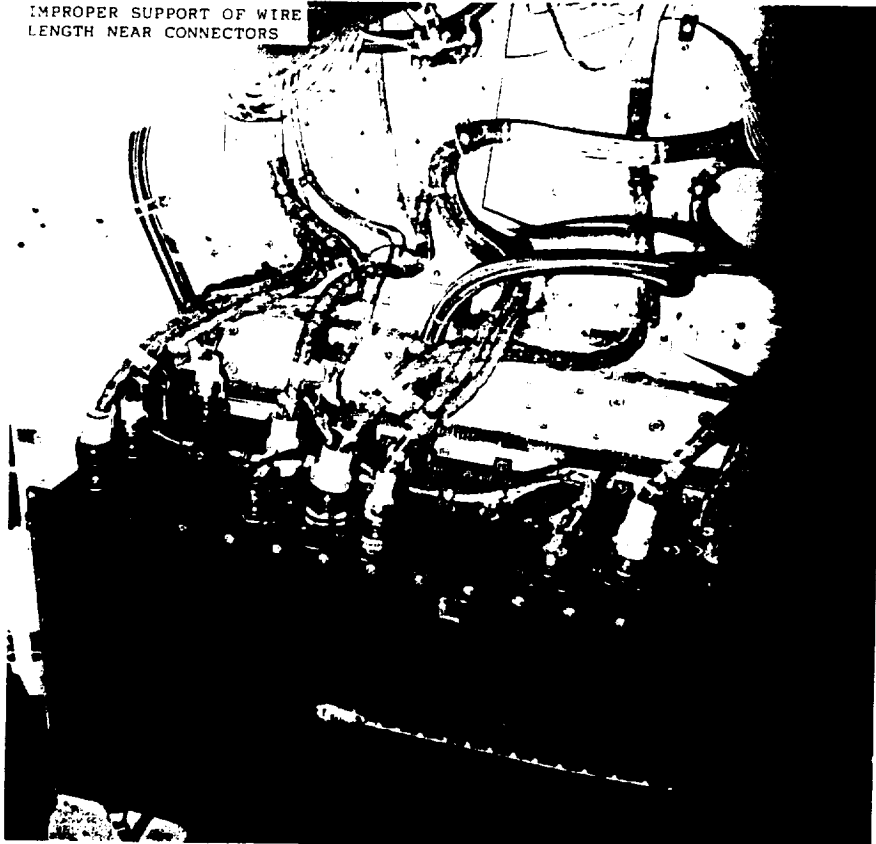
HARNESS UNDERNEATH BRAIDED
PROPELLANT LINE

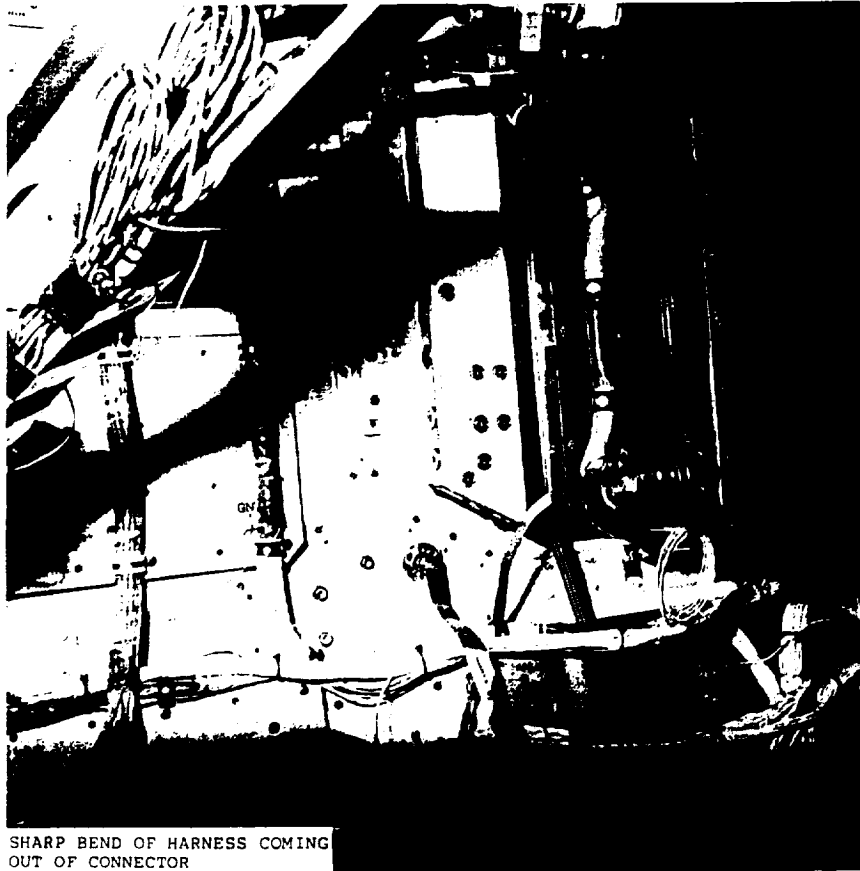


EXCESSIVE LENGTH IN HARNESS
LINES AND IMPROPER SUPPORT OF
HARNESS



IMPROPER SUPPORT OF WIRE
LENGTH NEAR CONNECTORS



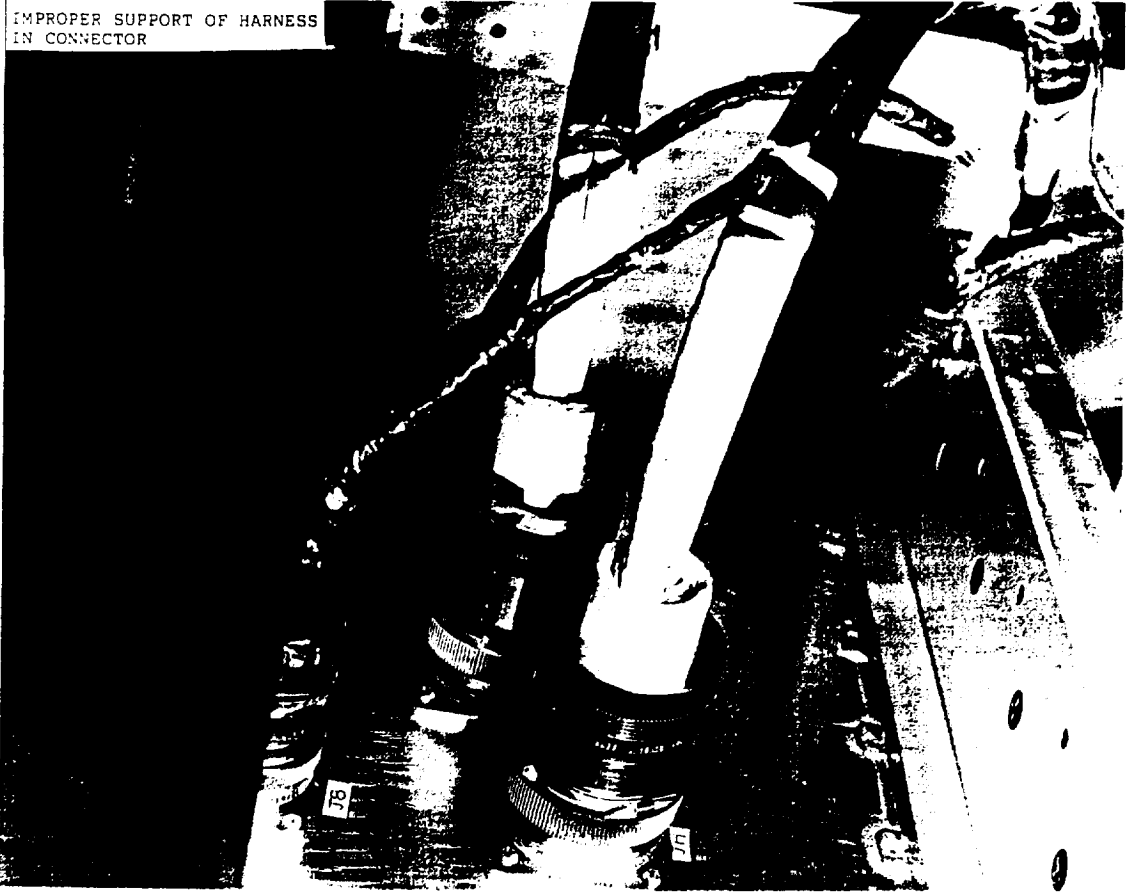


SHARP BEND OF HARNESS COMING
OUT OF CONNECTOR

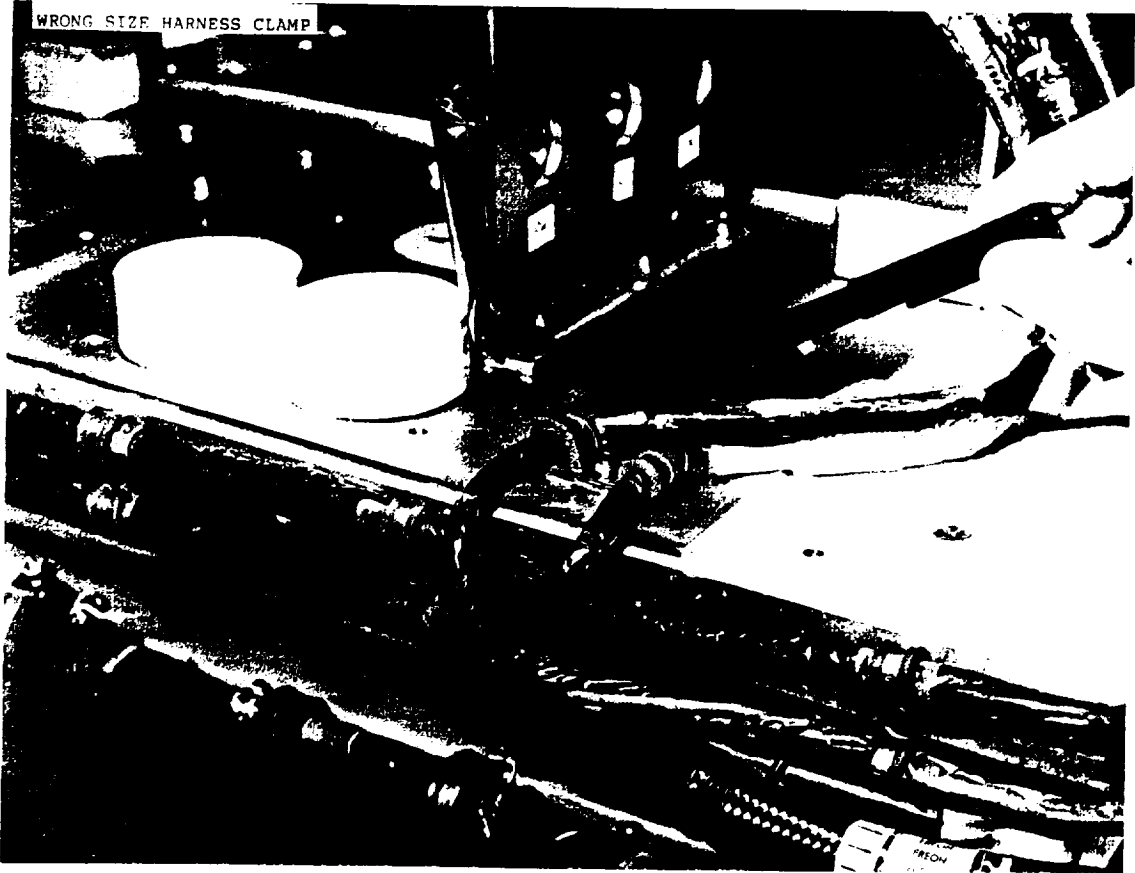


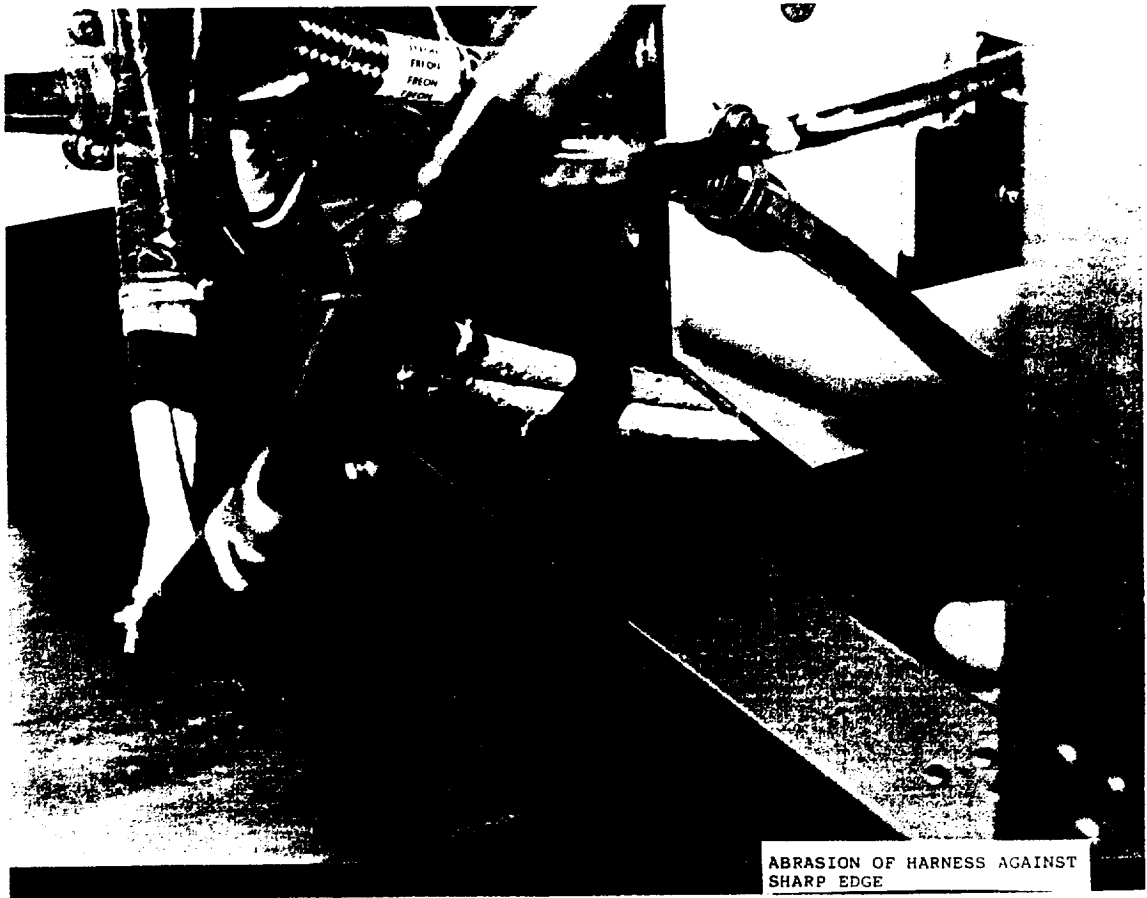
HARNESS AGAINST SHARP EDGES

IMPROPER SUPPORT OF HARNESS
IN CONNECTOR



WRONG SIZE HARNESS CLAMP





ABRASION OF HARNESS AGAINST SHARP EDGE

SESSION III

WIRING TEST RESULTS

