

ENGINEERING PRACTICE STUDY
TITLE: REVIEW OF INCREASING THE CONTACT BOUNCE FOR
MIL-R-5757/7G
PROJECT NUMBER 5945-2011-036

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STUDY PROJECT
FINAL REPORT

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Prepared by:

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ENGINEERING PRACTICE STUDY

Investigation of modifying the requirements for increasing the contact bounce, for
MIL-R-5757/7G

- I. OBJECTIVES: Survey the manufacturers and document custodians/reviewers to determine the acceptability of increasing the contact bounce.
- II. BACKGROUND: At this time, MIL-R-5757/7 requires M5757/7-001 to have a 1 millisecond (ms) maximum Contact bounce. However, the assembly allows relays from MIL-PRF-39016/6 which calls for a 2.0 ms maximum Contact bounce. Thus, when a MIL-R-5757/7 manufacturer procures MIL-PRF-39016/6 relays they must undergo a screening process to ensure the relays are at 1 millisecond (ms) maximum. Allowing the increase in contact bounce would allow the MIL-R-5757/7 and MIL-PRF-39026/6 requirements to be identical, eliminating the need to screen the Contact bounce measurement.
- III. RESULTS: A survey letter was sent to all QPL manufacturers and document custodians/reviewers. The response concurred with the proposal to add the connection of Terminal Y1 to Terminals X1 and X2 for the Insulation resistance and the Dielectric withstanding voltage tests.
- IV. CONCLUSION: It was determined that DLA Land and Maritime will change the electrical requirements to include Terminal Y1 must be connected with Terminals X1 and X2 during the Insulation resistance and Dielectric withstanding voltage tests..
- V. RECOMMENDATION: If there is a specific need to further modify MIL-PRF-83726/36A please notify Erika Baker (614) 692-4481 or Email Erika.Baker@dla.mil. I will be glad to work with the manufacturers and document custodians/reviewers to find a solution.

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