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| Traveler Title | Inspection for 8 Pin Cryogenic Feedthroughs |
| Traveler Abstract | Traveler to provide the necessary steps to perform receiving inspection on 8 pin feedthroughs used on C100 cryomodules. Receiving inspection includes visual, electrical, and leak check. |
| Traveler ID | C100R-CMA-FT08P-INSP |
| Traveler Revision  | R1 |
| Traveler Author | L. Zhao |
| Traveler Date | 20-Feb-24 |
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| Approval Signatures |  |  |  |  |
| Approval Dates |  |  |  |  |
| Approval Title | Author | Reviewer | Project Manager |  |

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| References | List and Hyperlink all documents related to this traveler. This includes, but is not limited to: safety (THAs, SOPs, etc), drawings, procedures, and facility related documents. |
| [CRM1207014-0001- CAVITY STRING, OUTSIDE THE CLEANROOM RevA (C100)](https://misportal.jlab.org/jlabDocs/documents/versions/184780) | [JLab Spec 11141S0029 RevB Standard Vacuum Leak Check Requirements](https://misportal.jlab.org/jlabDocs/documents/versions/128664) | JLAB SPEC 11141S0101 CRYOGENIC INSTRUMENTATION FEEDTHRU 8 CONDUCTOR, latest revision | Solid Sealing Technology Drawing KT49085 RevA | [JLab TN-12-202\_Memo of Cryogenic 8-Conductor Feedthroughs](https://jlabdoc.jlab.org/docushare/dsweb/Get/Document-60290/12-020.pdf) |
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| Revision Note |  |
| R1 | Initial release of this Traveler. |

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| Step No. | Instructions | Data Input |
| 1 | Visually inspect feedthrough.Is part clean, free from dust, oil, finger prints, or brazing residuePins straight on either endKnife edge goodCarefully test fit ceramic plugs into either endNote any non conformances. | [[VisInspTech]] <<SRF>>[[VisInspDate]] <<TIMESTAMP>>[[VisInspComm]] <<COMMENT>> |
| 2 | Electrically check all pins to the feedthru case and pin continuity through ceramic, using DVM and fabbed harness. | [[ElecCheckTech]]<<SRF>>[[ElecCheckDate]] <<TIMESTAMP>>[[ElecCheckComm]] <<COMMENT>> |
| 3 | Leak check feedthrough to JLAB Specification 11141S0029 RevB "Leak Check of Small Items". Leak Rate not to exceed 2e-10 atm cc/sec of He. | [[LeakCheckTech]] <<SRFCMP>>[[LeakCheckDate]] <<TIMESTAMP>>[[LeakCheckGood]] <<YESNO>>[[LeakCheckStripChart]] <<FILEUPLOAD>>[[LeakCheckComm]] <<COMMENT>> |
| 4 | Cold Shock the feedthrough:Perform in the VTA – use Traveler C100R-VTA-FT08P-CSHK |  |
| 5 | Blow off, re-leak check feedthrough to JLAB Specification 11141S0029 RevB "Leak Check of Small Items". Leak Rate not to exceed 2e-10 atm cc/sec of He. | [[ReLeakCheckTech]] <<SRFCMP>>[[ReLeakCheckDate]] <<TIMESTAMP>>[[ReLeakCheckGood]] <<YESNO>>[[ReLeakCheckStripChart]] <<FILEUPLOAD>>[[ReLeakCheckComm]] <<COMMENT>> |
| 6 | Re-package feedthrough, send to inventory area until use. | [[InvTech]] <<SRF>>[[InvTechDate]] <<TIMESTAMP>> |