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| Traveler Title | LCLS II Cryomodule Disassembly Traveler | | | |
| Traveler Abstract | This traveler outlines the necessary disassembly steps for the LCLS II Cryomodule. The Cryomodule is being disassembled for refurbishment and or repair. It begins with a fully assembled Cryomodule that has been selected for rework and ends with a fully disassembled Cryomodule. Work shall be performed by trained Competent Technical Staff only. | | | |
| Traveler ID | L2RB-CMA-CM-DISA | | | |
| Traveler Revision | R1 | | | |
| Traveler Author | John Fischer | | | |
| Traveler Date | 27-May-25 | | | |
| NCR Informative Emails | hannesv | | | |
| NCR Dispositioners | fischer,jjcamp,jared,cheng | | | |
| D3 Emails | adamg,cheng,hannesv | | | |
| Approval Names | John Fischer | Gary Cheng | Tony Reilly | Mike Bevins |
| Approval Signatures |  |  |  |  |
| Approval Dates |  |  |  |  |
| Approval Title | Author/Group Lead | Lead Project Engineer | SRF Dept Head | 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.  **Linked documents within the Traveler are for Reference Only, user to verify work is done to the latest revisions.** | | | |
| [F10127855\_LCLS HE Cryomodule Assy dwg](https://misportal.jlab.org/jlabDocs/documents/versions/184612/download) | [F10127864 LCLS HE Cold Mass dwg](https://misportal.jlab.org/jlabDocs/documents/versions/184613/download) | [F10127865 Cavity String](https://misportal.jlab.org/jlabDocs/documents/versions/185834/download) | [F10048652 HV Magnetic Shielding](https://jlabdoc.jlab.org/docushare/dsweb/Get/Document-254206/F10048652-G-DWG1-%20HV%20Magnetic%20Shielding.pdf) | [F10009375 Magnet pkg](https://jlabdoc.jlab.org/docushare/dsweb/Get/Document-254204/F10009375-U-DWG1-Magnet.pdf) |
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| Revision Note |  |
| R1 | Initial release of this Traveler. |

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| Step No. | Instructions | Data Input |
| 1 | Identify a Cryomodule for refurbishment. Record the serial number.  Enter notes particular to rework in the comment box | [[CMSN]] <<CMSN>>  [[IdentDate]] <<TIMESTAMP>>  [[IdentComment]] <<COMMENT>>  [[IdentName]] <<SRF>> |
| 2 | Position the Cryomodule at WS5 | [[Pos5Name]] <<SRF>>  [[Pos5Date]] <<TIMESTAMP>> |
| 3 | Following the Procedure (ID HERE) for disassembly at Workstation 5, complete tasks and record serial numbers of traced items accordingly. Items may be returned to the Inventory area.  SN’s to record;   * Warm Couplers (Qnty 8) * Cryogenic Control Pressure Valves (Cooldown and JT) | [[Proc5Name]] <<SRF>>  [[Proc5Date]] <<TIMESTAMP>>  [[Proc5Comment]] <<COMMENT>>  [[Proc5Cav1FPCWSN]] <<FPCWSN>>  [[Proc5Cav2FPCWSN]] <<FPCWSN>>  [[Proc5Cav3FPCWSN]] <<FPCWSN>>  [[Proc5Cav4FPCWSN]] <<FPCWSN>>  [[Proc5Cav5FPCWSN]] <<FPCWSN>>  [[Proc5Cav6FPCWSN]] <<FPCWSN>>  [[Proc5Cav7FPCWSN]] <<FPCWSN>>  [[Proc5Cav8FPCWSN]] <<FPCWSN>>  [[Proc5CDVSN]] <<CDVSN>>  [[Proc5JTVSN]] <<JTVSN>> |
| 4 | Verify all Procedure steps have been completed, part numbers recorded, and that the Cryomodule is ready for Workstation 4. | [[Ver5Name]] <<SRF>>  [[Ver5Date]] <<TIMESTAMP>>  [[Ver5Comment]] <<COMMENT>> |
| 5 | Move to Cryomodule to WS4 (Cantilever) | [[Move4Name]] <<SRF>>  [[Move4Date]] <<TIMESTAMP>>  [[Move4Comment]] <<COMMENT>> |
| 6 | Following the Procedure (ID HERE) for disassembly at Workstation 4, complete tasks and record serial numbers of traced items accordingly. Items may be returned to the Inventory area.  SN’s to record;   * Vacuum Vessel * Upper Cold Mass | [[Proc4Name]] <<SRF>>  [[Proc4Date]] <<TIMESTAMP>>  [[Proc4Comment]] <<COMMENT>>  [[Proc4VVSN]] <<VVSN>>  [[Proc4UCMSN]] <<UCMSN>> |
| 7 | Verify all Procedure steps have been completed, part numbers recorded, and that the Cryomodule is ready for Workstation 3. | [[Ver4Name]] <<SRF>>  [[Ver4Date]] <<TIMESTAMP>>  [[Ver4Comment]] <<COMMENT>> |
| 8 | Move to Cryomodule to WS3 (Four-Poster) | [[Move3Name]] <<SRF>>  [[Move3Date]] <<TIMESTAMP>>  [[Move3Comment]] <<COMMENT>> |
| 9 | Following the Procedure (ID HERE) for disassembly at Workstation 3, complete tasks and record serial numbers of traced items accordingly. Items may be returned to the Inventory area.  SN’s to record;   * Tuners (Qnty 8, two Possibilities for Cavity 1, fill out the appropriate one) * Piezos (Qnty 16, two for each Cavity) * Stepper Motors (Qnty 8) | [[Proc3Name]] <<SRF>>  [[Proc3Date]] <<TIMESTAMP>>  [[Proc3Comment]] <<COMMENT>>  [[TUNCXSNCAV1]] <<TUNCXSN>>  [[TUNCSNCAV1]] <<TUNCSN>>  [[TUNCSNCAV2]] <<TUNCSN>>  [[TUNCSNCAV3]] <<TUNCSN>>  [[TUNCSNCAV4]] <<TUNCSN>>  [[TUNCSNCAV5]] <<TUNCSN>>  [[TUNCSNCAV6]] <<TUNCSN>>  [[TUNCSNCAV7]] <<TUNCSN>>  [[TUNCSNCAV8]] <<TUNCSN>>  [[PIEZOSNUpperCav1]] <<PIEZOSN>>  [[PIEZOSNLowerCav1]] <<PIEZOSN>>  [[PIEZOSNUpperCav2]] <<PIEZOSN>>  [[PIEZOSNLowerCav2]] <<PIEZOSN>>  [[PIEZOSNUpperCav3]] <<PIEZOSN>>  [[PIEZOSNLowerCav3]] <<PIEZOSN>>  [[PIEZOSNUpperCav4]] <<PIEZOSN>>  [[PIEZOSNLowerCav4]] <<PIEZOSN>>  [[PIEZOSNUpperCav5]] <<PIEZOSN>>  [[PIEZOSNLowerCav5]] <<PIEZOSN>>  [[PIEZOSNUpperCav6]] <<PIEZOSN>>  [[PIEZOSNLowerCav6]] <<PIEZOSN>>  [[PIEZOSNUpperCav7]] <<PIEZOSN>>  [[PIEZOSNLowerCav7]] <<PIEZOSN>>  [[PIEZOSNUpperCav8]] <<PIEZOSN>>  [[PIEZOSNLowerCav8]] <<PIEZOSN>>  [[SMSNCAV1]] <<SMSN>>  [[SMSNCAV2]] <<SMSN>>  [[SMSNCAV3]] <<SMSN>>  [[SMSNCAV4]] <<SMSN>>  [[SMSNCAV5]] <<SMSN>>  [[SMSNCAV6]] <<SMSN>>  [[SMSNCAV7]] <<SMSN>>  [[SMSNCAV8]] <<SMSN>> |
| 10 | Verify all Procedure steps have been completed, part numbers recorded, and that the Cryomodule is ready for Workstation 2. | [[Ver3Name]] <<SRF>>  [[Ver3Date]] <<TIMESTAMP>>  [[Ver3Comment]] <<COMMENT>> |
| 11 | Move to Cryomodule to WS2 (Fixed Rails) | [[Move2Name]] <<SRF>>  [[Move2Date]] <<TIMESTAMP>>  [[Move2Comment]] <<COMMENT>> |
| 12 | Following the Procedure (ID HERE) for disassembly at Workstation 2, complete tasks and record serial numbers of traced items accordingly. Items may be returned to the Inventory area.  SN’s to record;   * Cavities (Qnty 8) * BPM’s (Qnty 4) * SPQA (Qnty 1) * Magnetic Shields (Qnty 8, Helium Vessels) | [[Proc2Name]] <<SRF>>  [[Proc2Date]] <<TIMESTAMP>>  [[Proc2Comment]] <<COMMENT>>  [[CAVSN1]] <<CAVSN>>  [[CAVSN2]] <<CAVSN>>  [[CAVSN3]] <<CAVSN>>  [[CAVSN4]] <<CAVSN>>  [[CAVSN5]] <<CAVSN>>  [[CAVSN6]] <<CAVSN>>  [[CAVSN7]] <<CAVSN>>  [[CAVSN8]] <<CAVSN>>  [[BPMFTSNTOP]] <<BPMFTSN>>  [[BPMFTSNWALL]] <<BPMFTSN>>  [[BPMFTSNBOTTOM]] <<BPMFTSN>>  [[BPMFTSNAISLE]] <<BPMFTSN>>  [[QUADSN]] <<QUADSN>>  [[MAGSNCAV1]] <<MAGSN>>  [[MAGSNCAV2]] <<MAGSN>>  [[MAGSNCAV3]] <<MAGSN>>  [[MAGSNCAV4]] <<MAGSN>>  [[MAGSNCAV5]] <<MAGSN>>  [[MAGSNCAV6]] <<MAGSN>>  [[MAGSNCAV7]] <<MAGSN>>  [[MAGSNCAV8]] <<MAGSN>> |
| 13 | Verify all Procedure steps have been completed, part numbers recorded, and that the Cryomodule is ready for turnover to the Cavity Group | [[Ver2Name]] <<SRF>>  [[Ver2Date]] <<TIMESTAMP>>  [[Ver2Comment]] <<COMMENT>> |
| 14 | Turnover the Cavity string to the Cavity Group  Record Lessons Learned | [[TurnOName]] <<SRF>>  [[TurnODate]] <<TIMESTAMP>>  [[TurnOComment]] <<COMMENT>>  [TurnOFiles[]] <<FILEUPLOAD>> |