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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 | jared,areilly | | | |
| NCR Dispositioners | fischer,cheng,adamg | | | |
| D3 Emails | adamg,cheng,fischer,jared | | | |
| Approval Names | J. Fischer | J. Martin | G. Cheng | A. Grabowski |
| Approval Signatures |  |  |  |  |
| Approval Dates |  |  |  |  |
| Approval Title | Author/Group Lead | Reviewer | 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.  **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://misportal.jlab.org/jlabDocs/documents/versions/185841/download) | [F10009375 Magnet pkg](https://misportal.jlab.org/jlabDocs/documents/versions/185835/download) |
| L2RB-PR-CMA-WS5-DISA-R1 | [L2RB-PR-CMA-WS4-DISA-R1](https://jlabdoc.jlab.org/docushare/dsweb/Get/Document-301715/L2RB-PR-CMA-WS4-DISA-R1.pdf) | [L2RB-PR-CMA-WS3-DISA-R1](https://jlabdoc.jlab.org/docushare/dsweb/Get/Document-301713/L2RB-PR-CMA-WS3-DISA-R1.pdf) | [L2RB-PR-CMA-WS2-DISA-R1](https://jlabdoc.jlab.org/docushare/dsweb/Get/Document-301717/L2RB-PR-CMA-WS2-DISA-R1.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 L2RB-PR-CMA-WS5-DISA-R1 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 [L2RB-PR-CMA-WS4-DISA-R1](https://jlabdoc.jlab.org/docushare/dsweb/Get/Document-301715/L2RB-PR-CMA-WS4-DISA-R1.pdf) 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 [L2RB-PR-CMA-WS3-DISA-R1](https://jlabdoc.jlab.org/docushare/dsweb/Get/Document-301713/L2RB-PR-CMA-WS3-DISA-R1.pdf) 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 [L2RB-PR-CMA-WS2-DISA-R1](https://jlabdoc.jlab.org/docushare/dsweb/Get/Document-301717/L2RB-PR-CMA-WS2-DISA-R1.pdf) 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>>  [[BPMSN]] <<BPMSN>>  [[BPMFTSNTOP]] <<BPMFTSN>>  [[BPMFTSNWALL]] <<BPMFTSN>>  [[BPMFTSNBOTTOM]] <<BPMFTSN>>  [[BPMFTSNAISLE]] <<BPMFTSN>>  [[QUADSN]] <<QUADSN>>  [[IMAGSNCAV1]] <<MAGSN>>  [[IMAGSNCAV2]] <<MAGSN>>  [[IMAGSNCAV3]] <<MAGSN>>  [[IMAGSNCAV4]] <<MAGSN>>  [[IMAGSNCAV5]] <<MAGSN>>  [[IMAGSNCAV6]] <<MAGSN>>  [[IMAGSNCAV7]] <<MAGSN>>  [[IMAGSNCAV8]] <<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>> |