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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 GroupRecord Lessons Learned  | [[TurnOName]] <<SRF>>[[TurnODate]] <<TIMESTAMP>>[[TurnOComment]] <<COMMENT>>[[TurnOFiles]] <<FILEUPLOAD>> |