N1245A-01 S E R V I C E N O T E

Supersedes: NONE

N1245A and N1245B Monolithic Laser Combiner

Serial Numbers: All

Fuses may work loose from controller boards for Coherent Sapphire Lasers

Parts Required:

NONE

ADMINISTRATIVE INFORMATION

| SERVICE NOTE CLASSIFICATION: | | | |
|------------------------------|------------------|--|--|
| INFORMATION ONLY | | | |
| [[]] Calibration Required | PRODUCT LINE: 45 | | |
| X Calibration NOT Required | AUTHOR: DW | | |
| ADDITIONAL INFORMATION: | | | |

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Situation:

Agilent N1245A and N1245B Monolithic Laser Combiners use Coherent Sapphire lasers for 488nm and 561nm lines. These Coherent Sapphire lasers are subject to a failure mode whereby the fuse in the controller board may work its way out of the socket due to vibration. When this occurs, the Sapphire laser becomes temporarily inoperable.

Coherent has already implemented a solution, as described in the attachment below. Replacing the fuse restores the laser to its previous operational state.

Lasers Impacted:

| Agilent Laser Model | Description |
|---------------------|-------------------------|
| N1245AL23 | 488nm, extra high power |
| N1245AL24 | 488nm, standard power |
| N1245AL26 | 488nm, high power |
| N1245AL34 | 561nm, standard power |
| N1245AL36 | 561nm, high power |
| N1245AL43 | 561nm, extra high power |

Solution/Action:

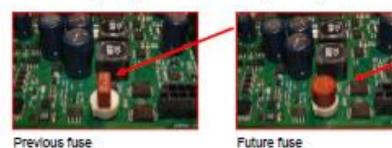
This service note is for your information only. If you find that a single laser has no output, the first action in troubleshooting is to check that the fuse is in place. Normally, when the fuse works loose, it remains inside the MLC chassis.



Certificate of Conformance Sapphire LP OEM Controller 1159709: Fuse Change

Herewith Coherent Informs that the fuse of the Sapphire LP OEM Controller 1159709 will be changed from Littlefuse TE5 396 Series Amp Code 1500 to Littlefuse TR5 372 Series Amp Code 1500, Apart from their geometry the fuses are identical.

Reason for the change: higher mechanical stability due to tighter mechanical fitting.



The change of the fuse type does not affect any functioning of the controller. The revision of the controller will be changed from AK to AL.

Coherent GmbH Branch Luebeck, Germany

Dr. Volker Pfeufer Product Line Manager April 20, 2012

Revision History:

| Revision Number | | Author | Reason For Change |
|--------------------|------------|--------|-------------------|
| 1.0 | 2013-02-05 | DW | As published |
| | | | |