

N1245B-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	
<input type="checkbox"/> Calibration Required <input checked="" type="checkbox"/> Calibration NOT Required	PRODUCT LINE: 45 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.

Notification by Coherent:



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 Littelfuse TE5 396 Series Amp Code 1500 to Littelfuse 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.



Previous fuse



Future fuse

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
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Dr. Volker Pfeufer
Product Line Manager
April 20, 2012

Revision History:

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