

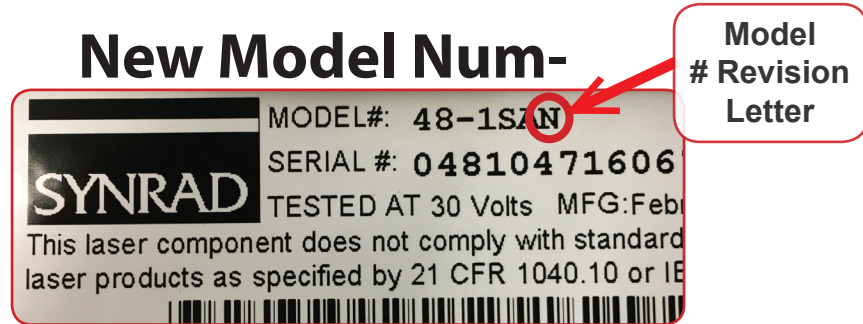


# Upgraded RF Driver Board

PCN#: 001-2016  
Date: 03/23/2016

ECN#:10052  
Product P/N: 48-1, 48-2, 48-5

Effective 1 March 2016, the 48-series products will start to ship with an upgraded RF driver board, the form, fit and function of the lasers will not change. Units with the new driver board (Driver 7) will be designated by the revision letter "N" e.g. a 48-1SAM will become a 48-1SAN etc.



All variants of the 48 series laser will be available with revision "N". Over the remainder of 2016 we would be aiming to stop shipping the "M" version. The new driver is backwardly compatible with previous 48 Series drivers and will start being used for service of 48 series lasers sometime after 1 March 2016.

The upgrade is primarily to improve manufacturing yield. The design changes minimize the stress on the FET in the circuit and reduce the operating temperature so there is an expectation of equal or higher reliability in the field. The new driver has been life tested and evaluated for performance over the full specification range of the 48 series and has proved to be as good as or better than the existing driver. One significant area of improvement is in achieving faster plasma breakdown from a cold start.