



Nightsun® Searchlight **Safety and Service Bulletin**

Date: 12/16/98

Bulletin # SL0198-01

Subject:

Terminal Lug Crimps - All Searchlight Products with 6 AWG and 8 AWG Wires

Affected Products:

SX-16 and SX-5 searchlight products manufactured from January 1993 thru November 1998, with the following Spectrolab part numbers:

SX-16 Searchlight Assembly - P/N 017500-11, 017500-41, and 025000-31

SX-16 Junction Box Assembly - P/N 020706, and 032028

SX-16 Power Cables - P/N 018505-XX, and 018506-XX

SX-5 Power Cables - P/N 017618-XX, and 017619-XX

Dear Searchlight Product User:

During a routine inspection of our terminal lug crimping equipment, it came to our attention that the process and/or equipment used to crimp 6 AWG and 8 AWG wire lugs could yield connections that may not be mechanically or electrically adequate.

The loose connections produced by this equipment could cause intermittent problems or failure of your equipment to operate. Intermittent problems may range from difficulty starting the lamp to loss of lamp power while in operation.

WARNING: TO AVOID A POTENTIALLY DANGEROUS SITUATION WHICH COULD CAUSE SERIOUS PERSONAL INJURY OR PROPERTY DAMAGE, ENSURE THAT ALL 6AWG AND 8 AWG LUGGED WIRE CONNECTIONS ARE SECURED AS DESCRIBED IN THIS BULLETIN.



What you should do:

We recommend that all 6 AWG and 8 AWG lugged wire connections on the affected assemblies (listed above) be checked for proper installation. The inspection of the lug/wire connections can be performed in two steps:

- 1) A visual check - be sure that there are four flat indentations on the insulator of the lug wire barrel. The insulator should be free of cuts or tears and uniformly compressed. Also check that the metallic portion of the barrel is free from defects.

- 2) The mechanical pull test - with the wire assembly removed, test the lug to wire strength by performing the pull test. The pull test can be performed with a hanging linear scale that can accurately measure a pull force of greater than twenty-five pounds. To perform the test, attach the lug to the linear scale and pull on the wire until a force of twenty-five pounds is exerted on the connection. If the lug connection passes the test, it is ready to be returned to service. Before installation, check the wire assembly for damage sustained during the testing process.

If your wire assembly requires repair, the unit may be returned to Spectrolab for immediate service. You will not be charged for this service.

Thank you for your attention in this matter. Please call or fax if I can assist you in this matter.

Sincerely,

Shawn Mitschelen
Customer Service Manager
Spectrolab, Inc.

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