



## Installation Instructions

### **SPN 90122 - SN3308 Projection Lamp Kit, Long Life**

Note: This kit contains a long-life projection lamp which when installed in accordance with the following instructions has no service life restriction beyond that stated in the current Instructions for Continued Airworthiness for the SN3308. It is not affected by Sandel Service Bulletin SB3308-01. This lamp is identified by a marking of 05C or 05D on the base of the lamp.

Effectivity: This kit shall only be used in SN3308 units of MOD 2 status or greater. For units with lower MOD status, use kit SPN 90120 which is restricted to 100 hour replacement interval per SB SN3308-01.

Tools:

- 1ea. Tubing SPN 60141 (enclosed)
- 1 ea. Phillips Screwdriver, #0 point
- 1 ea. Phillips Screwdriver, #1 point
- 1 ea. Phillips Screwdriver, #2 point
- 1 ea. Allen Key, 7/64"
- 1 ea. 1/4" Nut Driver

#### Instructions:

1. Remove the SN3308 from the panel using the #2 screwdriver. Loosen fully but do not remove the two 8-32 screws above the SN3308 to remove tension from the clamp tray. Then, loosen the screw at the lower right and completely remove the single size 8-32 screw at the lower-left of the SN3308.

2. Insert a 7/64" Allen key into this hole approximately 3/4" and you will engage a removal jackscrew. This jackscrew is used to *assist* in removing the SN3308 but cannot extract the SN3308 alone. Rotate the jackscrew clockwise while simultaneously pulling on the front bezel of the SN3308 to provide additional extraction force. Continue to assist the jackscrew in this manner turn 1/2 a turn at a time. If you have difficulty in removing the SN3308 the upper two clamp screws may not have been loosened sufficiently. DO NOT apply excessive torque on the jackscrew at any time.

When the SN3308 has been removed, rotate the jackscrew fully counter-clockwise to return the ejection mechanism to its initial position, otherwise the SN3308 will not seat in its connectors on re-installation.

3. Place the SN3308 unit firmly on a clean table or work bench. Remove the cover screws as shown on the accompanying diagram and remove the cover.
  4. Place the SPN 60141 tubing over the lamp and then extract the lamp by pulling straight up out of the SN3308. Discard the lamp.
  5. Do not touch the new lamp with your bare fingers. Put on the finger cots supplied and remove the new projection lamp from its box. Guide the new lamp into the socket holes, using a slight rocking motion to engage the pins. Once in the holes, engaged, push down until fully seated. When in the correct position the filament of the lamp will line up with two small alignment notches visible at the top of the projector housing assembly. (The SPN 60141 tubing may be used to hold the lamp during this operation if desired.)
  6. Reinstall the top cover using the original screws. Do not apply excessive torque on the small 2-56 screws in the upper bezel at the front.
  7. Reinstall unit in clamp tray per installation manual 90106-IM appropriate revision. Note: "Old style" clamptrays (clamptray rev-'E' and earlier) require repositioning the jackscrew and pushing the unit back into position. "New style" clamptrays (clamptray rev-'F' and later) will engage and lock the unit using the jackscrew alone. Rev 'F' clamptrays have the revision letter visible on the inside front of the tray. See the installation manual if you are not sure which clamptray you have.
  8. *Software.* Reset the lamp-hours counter in the SN3308 by entering the LAMP maintenance page #21 and pressing, simultaneously, the LAMP and CHG softkeys. The lamp change function will start and will complete in approximately 30 seconds.
  9. Return the SN3308 to service. Enter the change of the projection lamp, and inspection and test record into the aircraft maintenance records.
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NOTES: UNLESS OTHERWISE SPECIFIED.

**SANDEL Avionics** 2401 Dogwood Way  
Vista CA 92083 - Made in USA

Model: <b>SN3308</b>	Part Number <b>SN3308-00-BL</b>
Voltage: <b>11 - 33 VDC</b>	Serial Number <b>XXXX 1</b>
Power Req: <b>35 Watts</b>	Program Version <b>SEE DISPLAY</b>
Weight: <b>2.9 Lbs.</b>	RTCA/DO-178B, Level C
FAA TSO-C113b	DO-180C Cat F1 CANBMXXXXXXXXXBABBWA/XXXX
MOD: ● 3 4 5 6 7 8	DO-180D Cat XXXXXXXXXXXXXXXXXXXX (E/F-2) XX
Label P/N 62001-B	U.S. & Foreign Patents Pending

LABEL SHOULD INDICATE MOD 2 OR HIGHER

DETAIL A ROTATED 180°

SEE DETAIL A

REMOVE TWO 4-40 FLAT HEAD SCREWS

REMOVE TWO 2-56 FLAT HEAD SCREWS

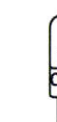
LAMP IS LOCATED DIRECTLY UNDER COVER AT THIS LOCATION

REMOVE TWO 4-40 FLAT HEAD SCREWS

REMOVE (ENCIRCLED) 4-40 BUTTON HEAD SCREW IF PRESENT REMOVE (ENCIRCLED) 1/4" TAPER PIN

TO REMOVE COVER LIFT AND SLIDE IN DIRECTION OF ARROW

NEW LAMP MUST BE LABELED 05C OR 05D



REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	INITIAL RELEASE	11/1/99	GB
	B	INCORPORATED A/R 245 ADDED CUTOUT FOR NEW LOCK EXTRACTOR	8/21/00	GB
	C	A/R 2839 05C OR 05D WAS 05C OR 08A	2-1-19	

COMPUTER CONTROLLED DRAWING  
DO NOT REVISE MANUALLY

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± 1/32 ± .004 ± .01 ± 0°30'			ENGINEERING NO.		<b>SANDEL</b> VISTA, CA	
MATERIAL			APPROVALS	DATE	BULB KIT INSTRUCTIONS LONG LIFE	
FINISH			DRAWN M. KERSLAKE	98/10/29	REV. C	
TAB NO.	NEXT ASSY	USED ON	CHECKED	ISSUED	SIZE D	DWG. NO. 90122-21
APPLICATION			DO NOT SCALE DRAWING		SCALE 1/1	SHEET 1 OF 1