

TITLE

LIGHTS - LED TAIL STROBE LIGHT INSTALLATION WITH 130-3070-0001 KIT INSTALLED

EFFECTIVITY

MODEL	SERIAL NUMBERS
B200	BB-1834, BB-1843 thru BB-2019
B200C	BL-148 thru BL-171
B200GT	BY-1 thru BY-408
B200CGT	BZ-1 thru BZ-3
B300	FL-381, FL-383 thru FL-1273
B300C	FM-12 thru FM-103

NOTE: The effectivity listed only applies to customer's who have previously installed the 130-3070-0001 Kit.

REASON

The original LED tail nav/strobe light is no longer available. A new LED tail nav/strobe light is available as a replacement.

DESCRIPTION

This service document provides parts and instructions to remove the original tail nav/strobe light and associated wiring. Then install a new wiring harness and LED tail nav/strobe light assembly with the associated brackets.

COMPLIANCE

OPTIONAL. This service document can be accomplished at the discretion of the owner.

A service document published by Textron Aviation may be recorded as *completed* in an aircraft log only when the following requirements are satisfied:

- 1) The mechanic must complete all of the instructions in the service document, including the intent therein.
- 2) The mechanic must correctly use and install all applicable parts supplied with the service document kit. Only with written authorization from Textron Aviation can substitute parts or rebuilt parts be used to replace new parts.
- 3) The mechanic or airplane owner must use the technical data in the service document only as approved and published.
- 4) The mechanic or airplane owner must apply the information in the service document only to aircraft serial numbers identified in the *Effectivity* section of the document.
- 5) The mechanic or airplane owner must use maintenance practices that are identified as acceptable standard practices in the aviation industry and governmental regulations.

No individual or corporate organization other than Textron Aviation is authorized to make or apply any changes to a Textron Aviation-issued service document or flight manual supplement without prior written consent from Textron Aviation.

June 15, 2023

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Textron Aviation Customer Service, P.O. Box 7706, Wichita, KS 67277, U.S.A. 1-316-517-5800

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Textron Aviation is not responsible for the quality of maintenance performed to comply with this document, unless the maintenance is accomplished at a Textron Aviation-owned Service Center.

APPROVAL

Textron Aviation received FAA approval for the technical data in this publication that changes the airplane type design.

FLIGHT CREW OPERATIONS

No Changes

CONSUMABLE MATERIAL

You must use the consumable materials that follow, or their equivalent, to complete this service document.

NAME	NUMBER	MANUFACTURER	USE
Sealant	U470638 Type I, Class B-1/2, (3.5 oz Simkit)	Textron Aviation Parts Distribution 7121 Southwest Boulevard Wichita, KS 67215	To electrically bond light assembly to the tail fairing.
Isopropyl Alcohol		Commercially Available	To clean access sealant between the light assembly and tail fairing.

TOOLING

No specialized tooling is required to complete this service document.

WEIGHT AND BALANCE INFORMATION

Negligible

REFERENCES

Beechcraft 200 Series Aircraft Maintenance Manual
 Beechcraft Super King Air B200GT/B200CGT Fusion Maintenance Manual
 Beechcraft Super King Air B300/B300C Maintenance Manual
 Beechcraft Super King Air B300/B300C Fusion Maintenance Manual
 Beechcraft King Air Chapter 20 Standard Practices - Airframe

PUBLICATIONS AFFECTED

Beechcraft 200 Series Aircraft Maintenance Manual
 Beechcraft Super King Air B200GT/B200CGT Fusion Maintenance Manual
 Beechcraft B200/B200T/B200C/B200CT Illustrated Parts Catalog
 Beechcraft B200GT/B200CGT Illustrated Parts Catalog
 Beechcraft 200C/CT, B200C/CT Series Wiring Diagram Manual
 Beechcraft B200/T/CT/GT/CGT WDM (Pro Line 21 Avionics)
 Beechcraft B200GT/B200CGT Fusion Wiring Diagram Manual
 Beechcraft Super King Air B300/B300C Maintenance Manual
 Beechcraft Super King Air B300/B300C Fusion Maintenance Manual
 Beechcraft B300/B300C Illustrated Parts Catalog FL-1 thru FL-600, FI-602 thru FL-671, FL-673 thru FL-687; FM-1 thru FM-35
 Beechcraft B300/B300C Illustrated Parts Catalog FL-601, FL-672, FL-688, and After, FM-36 and After

Beechcraft 350i Wiring Diagram Manual with Cabinet Management System

Beechcraft B300/B300C Avionics Wiring Diagram Manual

Beechcraft Super King Air Model B300/B300C Fusion Wiring Diagram Manual

ACCOMPLISHMENT INSTRUCTIONS

1. Prepare the airplane for maintenance.
 - A. Make sure that the airplane is electrically grounded.
 - B. Make sure that all switches are in the OFF/NORM position.
 - C. Disconnect electrical power from the airplane.
 - (1) Disconnect external electrical power.
 - (2) Disconnect the airplane battery.
 - D. Attach maintenance warning tags to the battery and external power receptacle that have **"DO NOT CONNECT ELECTRICAL POWER - MAINTENANCE IN PROGRESS"** written on them.
 - E. Depending upon the customer's airplane model use the references below as follows:

MODEL B200 and B200C

- Refer to the Beechcraft 200 Series Aircraft Maintenance Manual, Chapter 6, Airplane Access Panels - Description and Operation.
- Refer to the Beechcraft King Air Chapter 20 Standard Practices - Airframe, Electrical Wiring - Maintenance Practices.
- Refer to the Beechcraft King Air Chapter 20 Standard Practices - Airframe, Connectors - Maintenance Practices.
- Refer to the Beechcraft King Air Chapter 20 Standard Practices - Airframe, Electrical Bonding - Maintenance Practices.

MODEL B200GT and B200CGT

- Beechcraft Super King Air B200GT/B200CGT Fusion Maintenance Manual, Chapter 6, Airplane Access Panels - Description and Operation.
- Refer to the Beechcraft King Air Chapter 20 Standard Practices - Airframe, Electrical Wiring - Maintenance Practices.
- Refer to the Beechcraft King Air Chapter 20 Standard Practices - Airframe, Connectors - Maintenance Practices.
- Refer to the Beechcraft King Air Chapter 20 Standard Practices - Airframe, Electrical Bonding - Maintenance Practices.

MODEL B300 and B300C

- Refer to the Beechcraft Super King Air B300/B300C Maintenance Manual, Chapter 6, Airplane Access Panels - Description and Operation.
- Refer to the Beechcraft King Air Chapter 20 Standard Practices - Airframe, Electrical Wiring - Maintenance Practices.
- Refer to the Beechcraft King Air Chapter 20 Standard Practices - Airframe, Connectors - Maintenance Practices.
- Refer to the Beechcraft King Air Chapter 20 Standard Practices - Airframe, Electrical Bonding - Maintenance Practices.

MODEL B300 and B300C (Fusion)

- Refer to the Beechcraft Super King Air B300/B300C Fusion Maintenance Manual, Chapter 6, Airplane Access Panels - Description and Operation.
- Refer to the Beechcraft King Air Chapter 20 Standard Practices - Airframe, Electrical Wiring - Maintenance Practices.

- Refer to the Beechcraft King Air Chapter 20 Standard Practices - Airframe, Connectors - Maintenance Practices.
 - Refer to the Beechcraft King Air Chapter 20 Standard Practices - Airframe, Electrical Bonding - Maintenance Practices.
2. Remove the aft tail fairing as follows: (Refer to the applicable maintenance manual for the aft horizontal/vertical stabilizer fairing location.)
 - A. Remove the aft cover plate from the top surface of the tail fairing.
 - B. Prior to disconnecting the electrical connectors, secure the harness as necessary to prevent the harness from dropping out of reach and into the vertical stabilizer.
 - C. Remove the aft tail fairing.
 3. (Refer to Figure 1, Sheet 1.) Remove the aft tail strobe light assembly and wiring as follows:
 - A. Remove and discard the hardware that attaches the 130-365000-0001 Light Assembly to the tail fairing.
 - B. Discard the 130-365000-0001 Light Assembly and the associated harness.
 4. (Refer to Figure 2, Sheets 1 and 2.) Do the wiring modification to the airplane wiring harness as follows:
 - A. Remove and discard the P495 Connector.
 - B. Install a SJS840400 Pin Receptacle two M39029/58-364 Contact Pins and two MS27488-16 Sealing Plugs onto the existing airplane wiring harness.
 - C. Install a SJS840410 Pin Plug with three M39029/57-358 Sockets and one MS27488-16 Sealing Plug onto the existing airplane wiring harness.
 - D. Install and label each connector using one 131741-3 Marker Band onto the airplane wiring harness.
 5. (Refer to Figure 3, Sheet 1.) Install the 130-366006-0001 Strobe Light and Wiring Harness Assembly as follows:
 - A. Install the wiring harness of the 130-366006-0001 Strobe Light and Wiring Harness Assembly from the aft end of the tail fairing.
 - B. Electrically bond the 130-366006-0001 Strobe Light and Wiring Harness Assembly to the aft end of the tail fairing.
 - (1) Apply adequate U470638 Sealant between the 130-366006-0001 Strobe Light and Wiring Harness Assembly and tail fairing.

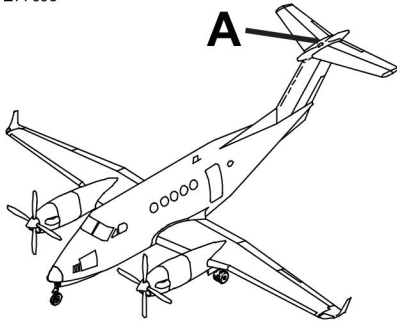
NOTE: The U470638 Sealant should squeeze out when the two MS35206-235 Screws are installed.
 - (2) Install two MS35206-235 Screws through the 130-366006-0001 Strobe Light and Wiring Harness Assembly and the tail fairing.
 - (3) Make sure to clean off excess sealant between the 130-366006-0001 Strobe Light and Wiring Harness Assembly and the tail fairing with Isopropyl Alcohol.
 - (4) Make sure that the electrical bond is no more than 0.01 Ohms.
 - C. Attach the wiring harness from the 130-366006-0001 Strobe Light and Wiring Harness Assembly with one MS3367-7-9 Cable Tie to each of the mounts attached to the tail fairing and bulkhead.
 - D. Install the tail fairing.
 - E. Connect the wiring connectors as follows:
 - (1) Connect J495 to P495.
 - (2) Connect P514 to J514.

6. Do an operational check of the 130-366006-0001 Strobe Light and Wiring Harness Assembly as follows:
 - A. Remove the maintenance warning tags and connect the airplane battery.
 - B. Put the BATT Switch to the ON Position.
 - C. Put the NAV LIGHT Switch to the ON Position.
 - (1) Make sure the tail position light illuminates a steady white light.
 - D. Put the STROBE LIGHT Switch to the ON Position
 - (1) Make sure the tail strobe light illuminates with a flashing white light.
 - E. Put the STROBE LIGHT and the NAV LIGHT Switches to the OFF position.
 - F. Put the BATT Switch to the OFF Position.
7. Do an elevator control sweep and make sure that the wiring does not contact the moving control surface parts.
8. Install the aft cover plate onto the top surface of the tail fairing.
9. Make an entry in the airplane logbook that states compliance and method of compliance with this service document.

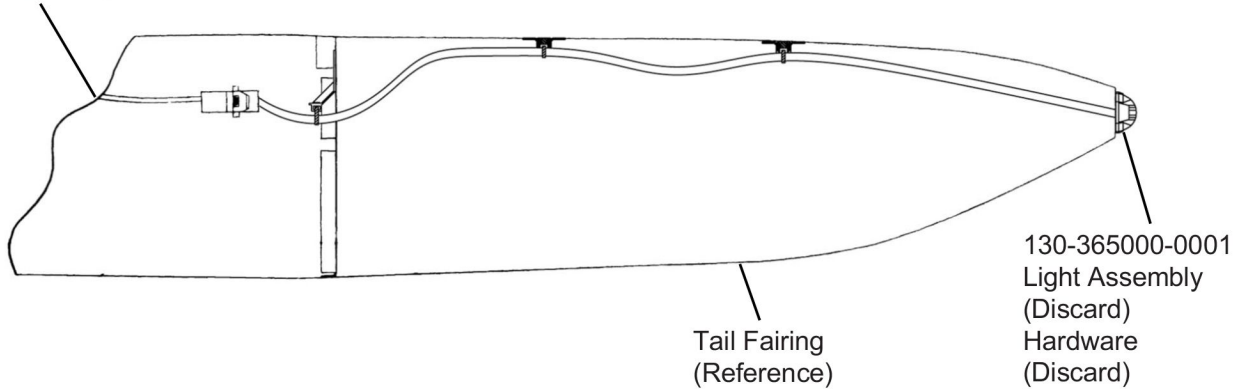
NOTE: Textron Aviation recommends that compliance with all service documents is reported to a maintenance tracking system provider.

- Complete a record of compliance. (Maintenance Transaction Report, Log Book Entry, or other record of compliance.)
- Put a copy of the completed record of compliance in the airplane logbook.
- Send a copy of the completed record of compliance to the maintenance tracking system provider used.

E77693



Aircraft Harness
(Reference)



DETAIL A
(View Looking Outboard)

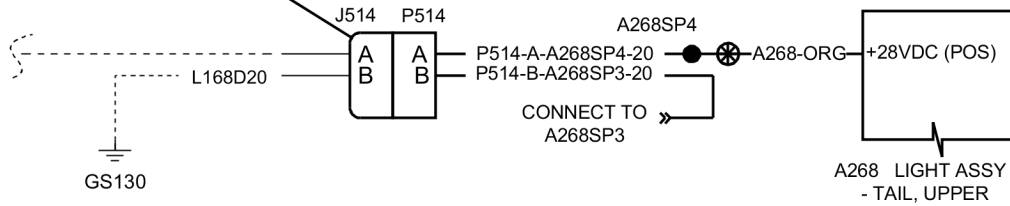
NOTE: The model shown is a B300, yet the location of the tail strobe light assembly is the same across all models.

130M366010

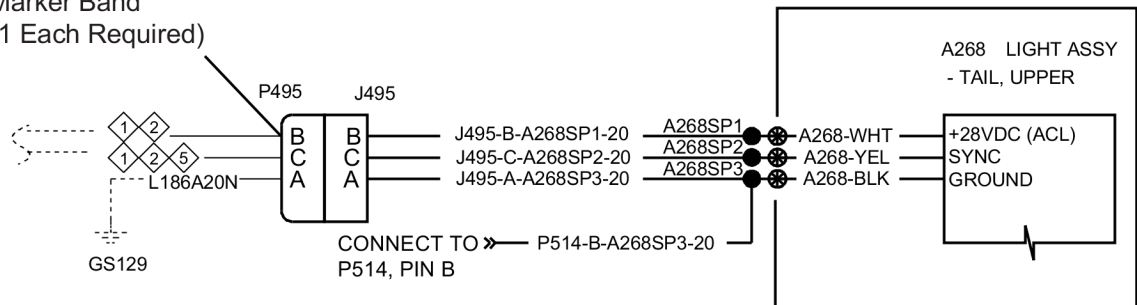
Figure 1. Before Modification (Sheet 1)

E77694

- SJS840400
- Pin Housing
- (1 Required)
- M39029/58-364
- Contact Pin
- MS27488-16
- Sealing Plug
- (2 Each Required)
- 131741-3
- Marker Band
- (1 Required)



- SJS840410
- Pin Housing
- (1 Required)
- M39029/57-358
- Socket
- (3 Required)
- MS27488-16
- Sealing Plug
- 131741-3
- Marker Band
- (1 Each Required)



Legend	
————	New Wiring
-----	Existing Wiring

130M366010

Figure 2. Wiring Modifications (Sheet 1)

E77695

① L182D20 } FL, FM
L184C20 }

② L182F20 } BB, BY, BZ, BL,
L184G20 }

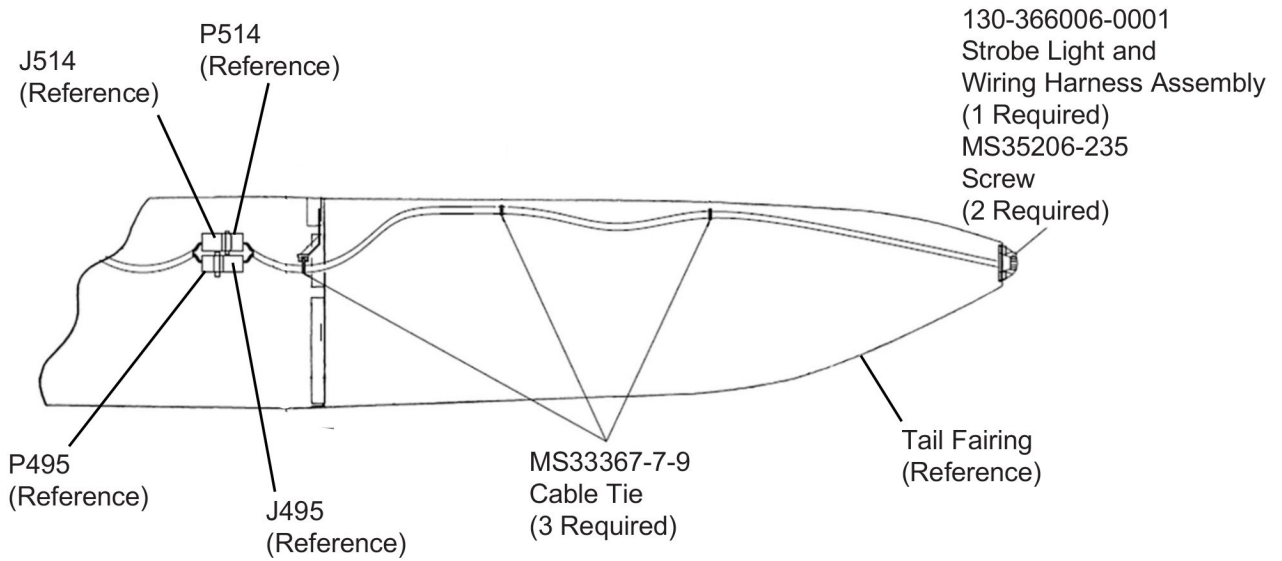
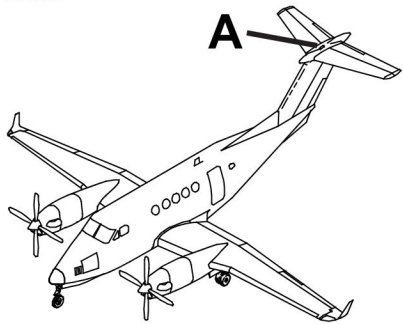
⑤ WIRE CAPPED & STOWED ON:
- BB-1835 THRU BB-1842

Wiring Code Notes

130M366010

Figure 2. Wiring Modifications (Sheet 2)

E77696



DETAIL A
(View Looking Outboard)

NOTE: The model shown is a B300, yet the installation of the 130-366006-0001 Strobe Light and Wiring Harness Assembly is the same across all models.

130M366010

Figure 3. After Modification (Sheet 1)

MATERIAL INFORMATION

Order the kit below to install this modification.

NEW P/N	QUAN- TITY	KEY WORD	OLD P/N	INSTRUCTIONS/ DISPOSITION
MTB-33-05	1	Kit , consisting of the following parts:		
MS27488-16	3	Sealing Plug	N/A	Install
MS3367-7-9	3	Cable Tie	N/A	Install
MS35206-235	2	Screw	N/A	Install
M39029/57-358	3	Socket	N/A	Install
M39029/58-364	2	Contact Pin	N/A	Install
SJS840400	1	4 Pin Receptacle	N/A	Install
SJS840410	1	4 Pin Plug	N/A	Install
130-366006-0001	1	Strobe Light and Wiring Harness Assembly	N/A	Install
131741-3	2	Marker Band	N/A	Install
MTB-33-05	1	Instructions		

* Please contact your Regional Textron Aviation Parts Distribution Customer Support Team for current cost and availability of parts listed in this service document. Phone at 1-800-835-4000 (Domestic) or 1-316-517-5603 (International).

For more information, please visit the TAPD Support & Aftermarket Account Management website at <https://ww2.txtav.com/Parts/Promos/TAPD>.

Based on availability and lead times, parts may require advanced scheduling.

TITLE

LIGHTS - LED TAIL STROBE LIGHT INSTALLATION WITH 130-3070-0001 KIT INSTALLED

TO:

Beechcraft Model B200, B200C, B200GT, B200CGT, B300, and B300C Aircraft Owner

REASON

The original LED tail nav/strobe light is no longer available. A new LED tail nav/strobe light is available as a replacement.

COMPLIANCE

OPTIONAL. This service document can be accomplished at the discretion of the owner.

LABOR HOURS

WORK PHASE	LABOR-HOURS
Modification	As Necessary
Test and Inspection	As Necessary

MATERIAL AVAILABILITY

PART NUMBER	AVAILABILITY	COST
MTB-33-05	*	*

* Please contact your Regional Textron Aviation Parts Distribution Customer Support Team for current cost and availability of parts listed in this service document. Phone at 1-800-835-4000 (Domestic) or 1-316-517-5603 (International).

For more information, please visit the TAPD Support & Aftermarket Account Management website at <https://ww2.txtav.com/Parts/Promos/TAPD>.

Based on availability and lead times, parts may require advanced scheduling.

WARRANTY

None

NOTE: As a convenience, service documents are now available online to all our customers through a simple, free-of-charge registration process. If you would like to sign up, please visit the Customer Access link at www.support.txtav.com to register.

