

SERVICE LETTER**NUMBER:** SL-008**DATE:** 05/22/09**SUBJECT:** Instructions for Aircraft Field Modification of Cabin Light Time Delay Relay**SUMMARY**

This Service Letter covers the work instructions to field retrofit the KODIAK 100.

RECURRENT REQUIREMENTS

None

BACKGROUND

The KODIAK 100 is equipped with a time delay relay that will automatically illuminate the cabin lights for a period of 30 minutes when the entry ceiling light rocker switch near the cargo door is pressed. Power for this function is taken directly from the aircraft battery to allow its use even when the master switch is "OFF". The time delay relay has a small amount of current drain and may excessively discharge the battery during longer periods of aircraft storage. This modification prevents battery drain during storage when the cargo door is closed.

ACTION

To prevent potential discharge of the battery, follow the instructions provided in this Service Letter for the field retrofit/rewire of the KODIAK 100.

DOCUMENTS AFFECTED

N/A

EFFECTIVITY

This Service Letter is applicable to:
KODIAK 100 Serial Numbers 100-0001 through 100-00015

COMPLIANCE

Operators Discretion

INDUSTRY SUPPORT INFORMATION

N/A

MANPOWER

Instructions in this Service Letter will take approximately 4 hours to complete.

COMPLETION

N/A

WARRANTY

Completion of this item is based upon the operator's discretion and labor costs will not be reimbursed. Quest will perform this modification free of charge if the aircraft is brought to Quest Aircraft for a(n) 100-hour or annual inspection or scheduled maintenance.

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SERVICE LETTER

SL-008 Instructions for Aircraft Field Modification
of Cabin Light Time Delay Relay

INSTALLATION INSTRUCTIONS

1.1 Overview

These instructions cover the rewire of the KODIAK 100.

Estimated Time to Complete: 4 hours

1.2 Parts Included in the Service Kit:

Part Number	Description	Quantity
SL-008	INSTRUCTIONS FOR FIELD RETROFIT	1
AMP D-436-37	BUTT SPLICE	2
MS22759/16-22-9	22 GAUGE WIRE	8 ft.
	TY-WRAP	As Required



1.3 Tools Required:

Tool Name	Tool Duty
Wire Strippers	No description.
Dikes	No description.
Butt Splice Crimpers/GMT 232	No description.
Socket Set	No description.
Interior Removal Tools	No description.
Heat Gun	No description.
Screwdriver (Philips)	No description.
11/32" Wrench or Socket	No description.


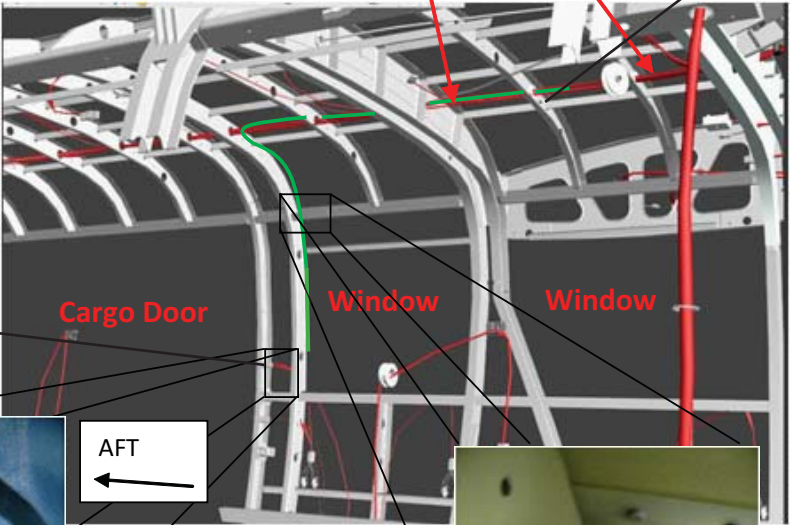

REWIRE INSTRUCTIONS

Task	Instruction	Visual
1	Gather materials: 8-ft 22 AWG wire (P/N MS22759/16-22-9) 2x wire splice (P/N AMP D-436-37)	
2	Remove PSU Duct (if installed) in accordance with the KODIAK 100 Maintenance Manual . Remove left interior window panel in accordance with the KODIAK 100 Maintenance Manual . NOTE: Use a scribe to pry cap mouldings out of track working forward to aft.	


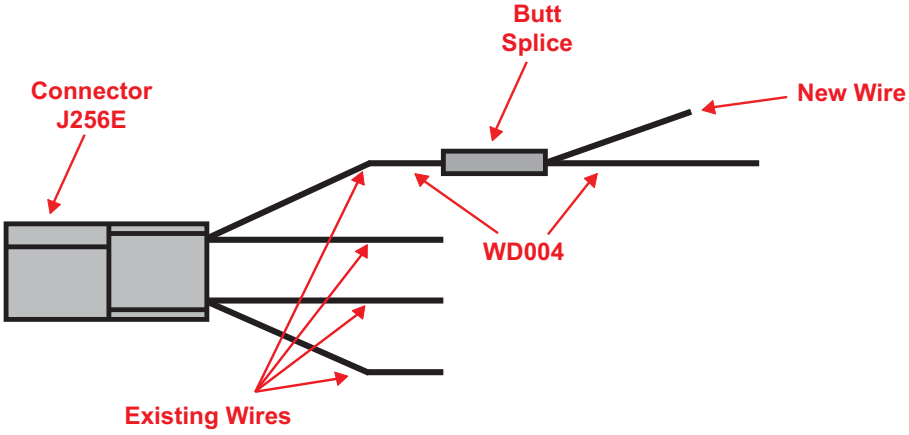
REWIRE INSTRUCTIONS

Task	Instruction	Visual
3	Remove forward and mid cabin ceiling panels as necessary to access wire bundle.	
4	Remove the nut from the ground stud in L/H ceiling between spar carrythroughs.	
5	Remove the wire labeled LC012 from ground stud and cut ring terminal from wire. (One of the white wires in the above picture is labeled LC012.)	

REWIRE INSTRUCTIONS

Task	Instruction	Visual
6	Re-install ground stud with all other previously attached wires.	
7	Splice the 8-ft of 22 AWG wire to LC012 using AMP D-436-37 splice and GMT 232 butt splice crimpers.	
8	Route this new wire as shown with existing bundle in the ceiling. Break this wire out of the bundle and route down behind left aft cabin window to connector J256E.	<div style="display: flex; flex-direction: column; align-items: flex-start;"> <div style="margin-bottom: 10px;"> (Green Wire) – Routing Path </div> <div style="margin-bottom: 10px;"> (Red Wire) – Existing Aircraft Wiring </div> <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p style="color: red; font-weight: bold;">Connector J256E</p>  </div> <div style="flex-grow: 1;">  </div> <div style="margin-left: 20px;"> <p style="color: red; font-weight: bold;">Route through frame cutout</p>  </div> </div> <div style="margin-top: 10px;"> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px 5px; margin-right: 5px;">AFT</div> <div style="font-size: 20px;">←</div> </div> </div> </div>

REWIRE INSTRUCTIONS

Task	Instruction	Visual
9	<p>Locate the wire WD004 in the J256E connector.</p> <p>Splice the routed wire to wire WD004 at the forward upper cargo door catch at connector J256E. Preserve existing wire connections.</p>	 
10	<p>Ensure all tools are picked up and all connections have been secured properly.</p> <p>Reinstall interior panels in accordance with the KODIAK 100 Maintenance Manual.</p>	
11	<p>Log all work in the KODIAK 100 Log Books.</p>	

OPERATIONAL TEST INSTRUCTIONS

Task	Instruction	Visual
1	With aircraft master switch "OFF" , aircraft cabin lights switch in cockpit switch panel "OFF" , and cargo door open, press upper portion of entry ceiling light rocker switch located near the cargo door and verify all four ceiling lights illuminate.	
2	Press lower portion of entry ceiling light switch and verify all lights extinguish.	
3	With cargo door open, turn aircraft master switch and avionics bus "ON" and verify amber "CARGO DOOR" annunciation appears in upper right portion of PFD. Note: "CARGO DOOR" annunciation may first appear as red warning but will revert to amber after a few seconds.	
4	Close cargo door and verify "CARGO DOOR" annunciation extinguishes.	
5	With cargo door closed, press upper portion of entry ceiling light rocker switch and verify ceiling lights do not illuminate and no "CARGO DOOR" annunciation appears on PFD.	
6	Turn cabin lights switch in cockpit "ON" and verify ceiling lights illuminate and no "CARGO DOOR" annunciation appears on PFD.	
7	Turn cabin lights switch "OFF" .	
8	Turn avionics bus and aircraft master switch "OFF" .	
9	With cargo door closed, press upper portion of entry ceiling light rocker switch and verify ceiling lights <u>do not</u> illuminate.	