INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

For Cargo Pod Lighting Installation for Cessna 208 and 208B

Document No.: 02010000-ICA

Revision A

Date: May 8, 2012

Applicable to:

Cessna 208 and 208B

ODA Project Number: ST1819DRB-A

The information in the Instruction for Continued Airworthiness is FAA accepted material and complies with 14 CFR 23.1529, Instructions for Continued Airworthiness. It supersedes or adds to that provided in the Maintenance Manual for the Cessna 208 and 208B Aircraft, only where covered in the items contained herein. For limitations and procedures not contained in the Supplement, consult the Component Maintenance Manual, or other approved aircraft data.

Aircraft Structures International Corp. Enid Woodring Regional Airport Enid, OK 73701 REVISION PAGE

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Document Title:

Instructions for Continued Airworthiness

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Updates to the ICA will be made by Aircraft Structures International Corp. Updates will be listed in the log of revisions and the effective pages will be listed below.

Log of Revisions					
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Orig. Issue	All	Initial Release	02/02/2012	Martin W. McCaslin	
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ABBREVIATIONS AND DEFINITIONS

Abbreviations	Definitions	
AML	FAA Approved Model List (AML)	
Detailed Inspection (DET)	An intensive examination of a specific item, installation or assembly to detect damage, failure or irregularity. Available lighting is normally supplemented with a direct source of good lighting at an intensity deemed appropriate. Inspection aids such as mirrors, magnifying lenses, etc. may be necessary. Surface cleaning and elaborate access procedures may be required.	
FAA	Federal Aviation Administration	
FAA MIDO	FAA Manufacturing Inspection District Office	
General Visual Inspection (GVI)	A visual examination of an interior or exterior area, installation or assembly to detect obvious damage, failure or irregularity. This level of inspection is made from within touching distance unless otherwise specified. A mirror may be necessary to enhance visual access to all exposed surfaces in the inspection area. This level of inspection is made under normally available lighting conditions such as daylight, hanger lighting, flashlight or droplight and may require removal or opening of access panels or doors. Stands, ladders or platforms may be required to gain proximity to the area being checked.	
ICA	Instructions for Continued Airworthiness	
РМА	Parts Manufacturer Approval	
STC	Supplement Type Certificate	

I MANUAL REVISION AND DISTRIBUTION

When this document requires revision it will be reissued in whole or in part. If issued in part, the revision level will be noted on the pages affected and on the List of Effective Pages. When the document requires substantial revision, it will be re-issued in whole. Aircraft Structures International will provide copies of this document to all registered operators of the equipment, and will provide revision service to all registered users of the equipment. Where reference is made to a Cessna 208 or 208B Manual it is the Manual current at the date of issue of these Instructions for Continued Airworthiness.

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1.0 INTRODUCTION

The purpose of these Instructions for Continued Airworthiness (ICA) is to provide the maintenance technician with the information necessary to ensure the continued airworthiness of the installation of an internal cargo pod lighting system per Aircraft Structures International Corp Installation Data List DL1819M02 Rev A or later FAA approved revision, in Cessna 208 and 208B.

Modifications to an aircraft obligates the operator to include the maintenance information provided by this document into the operator's aircraft Maintenance Manual and operator's aircraft scheduled maintenance program. This document defines supplementary maintenance operations and frequencies recommended by Aircraft Structures International Corp., to ensure the aircraft's airworthiness.

The information contained herein addresses the requirements specified in 14 CFR 23.1529, Instructions for Continues Airworthiness and supplements the basic aircraft maintenance manual only in those areas listed as pertains to the an internal cargo pod lighting system per the Aircraft Structures International Corp Installation Data List DL1819M02. For limitations and procedures not contained in this supplement, consult the basic aircraft maintenance manual.

Data

All information to support the continued airworthiness of this modification is contained in:

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Enid, OK 73701 Date: May 8, 2012 Aircraft Structures International Corp. Installation Data List DL1819M02 Rev A or later FAA approved revision.

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This project will install an internal cargo pod lighting system in the Cessna 208 and 208B aircraft. The 208 and 208B have a three and four bay cargo pods, respectively. A single light strip will be installed in each cargo pod bay and will be illuminated whenever the cabin cargo lights are lit. In addition, a timer will be installed and programmed to shut the LED light strip off after 30 minutes of operation.

Design Change Control

All data and changes to the parts and assemblies will be tracked per Installation Data List DL1819M02 Rev A or later FAA approved revision.

Applicable Aircraft

Cessna 208 and 208B

2.0 INSPECTION REQUIREMENTS AND OVERHAUL SCHEDULE

This alteration does not change the aircraft manufacturer's maintenance and inspection schedule.

In the event a system component failure occurs or the component does not perform its intended function, the component should be removed and replaced. Contact Aircraft Structures International Corp. for information regarding FAA approved replacement parts.

Perform the following general visual inspections annually.

Table 2.0A

Task Code	Task	Interval	Mech	Insp	Date
2.0.1	Perform a general visual inspection for corrosion, wear and tear, attachment condition, and loose items.	12 Months			

The following general items should be performed after removal / reinstallation of a system component and as a periodic maintenance inspection each time the associated area is inspected as a part of the normal aircraft inspection plan.

Table 2.0B

Task Code	Task	Interval	Mech	Insp	Date
2.0.2	Verify that all components are properly secured in their respective locations.	When cargo pod's interiors are			
2.0.3	Verify that connecting cables and associated wiring is free of damage or wear.	inspected per operator's			
2.0.4	Perform a functional test of all lights.	Inspection Plan			

3.0 DIMENSION AND ACCESS:

The installation of the cargo pod lighting system does not change the dimensions of the aircraft or alter the access to any existing aircraft system.

4.0 LIFTING AND SHORING

No change.

5.0 LEVELING AND WEIGHING

No change.

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6.0 TOWING AND TAXIING

No change.

7.0 PARKING AND MOORING

No change.

8.0 PLACARDS AND MARKINGS

N/A

9.0 MAINTENANCE INFORMATION

With the exception to the wiring, all other parts not specifically covered by the aircraft maintenance program, are to be maintained "On Condition". Contact Aircraft Structural International for replacement parts, and other warranty service. The LED cargo pod lights and timer are not required for continued safe flight and landing.

When the cabin cargo lights are on, the cargo bay LED lights will be lit for 30 minutes. Timers in the circuit are programmed to turn the cargo bay LED light strips off after 30 minutes of operation.

For failure of the lights to illuminate check:

- 1) The circuit breaker has not interrupted the circuit.
- 2) For loose electrical connections.
- 3) For broken or chaffed wiring.
- 4) Broken or damaged light assemblies.
- 5) Check for damage electrical timers and switches.

For disassembly and re-installation of the LED Cargo Pod Lighting required for steps 3, 4 and 5, refer to Appendix A, Figures A-1 thru A-4 for the Cessna 208 and Figures A-5 thru A-8 for the Cessna 208B.

For failure of lights to turn off:

1) Replace timers

For disassembly and re-installation of the LED Cargo Pod Lighting required refer to Appendix A, Figures A-1 thru A-4 for the Cessna 208 and Figures A-5 thru A-8 for the Cessna 208B.

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10.0 AIRWORTHINESS LIMITATIONS

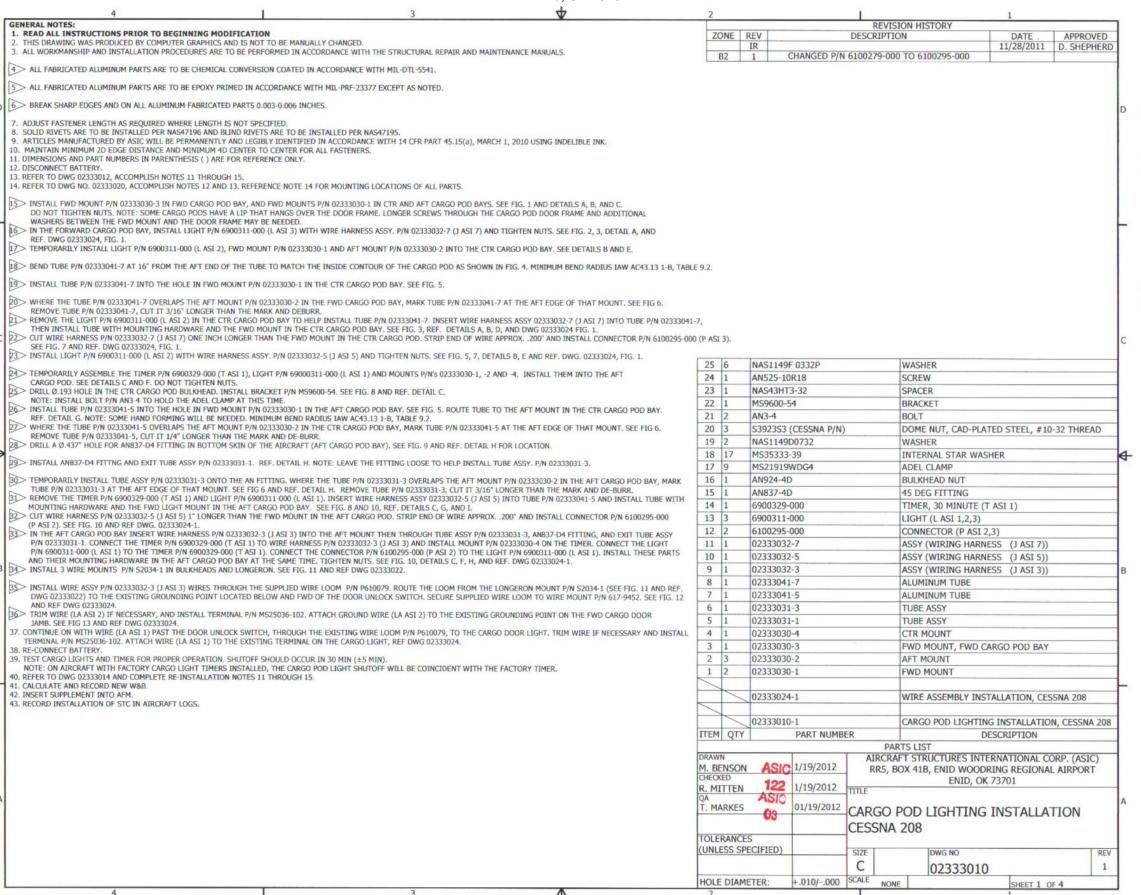
The information contained herein supplements the basic Maintenance Manuals only in those areas listed, when the aircraft is modified in accordance with Aircraft Structures International Corp. Installation Data List DL1819M02 Rev. (IR) or later FAA approved revision. For limitations and procedures not contained in this supplement, consult the basic Maintenance Manuals.

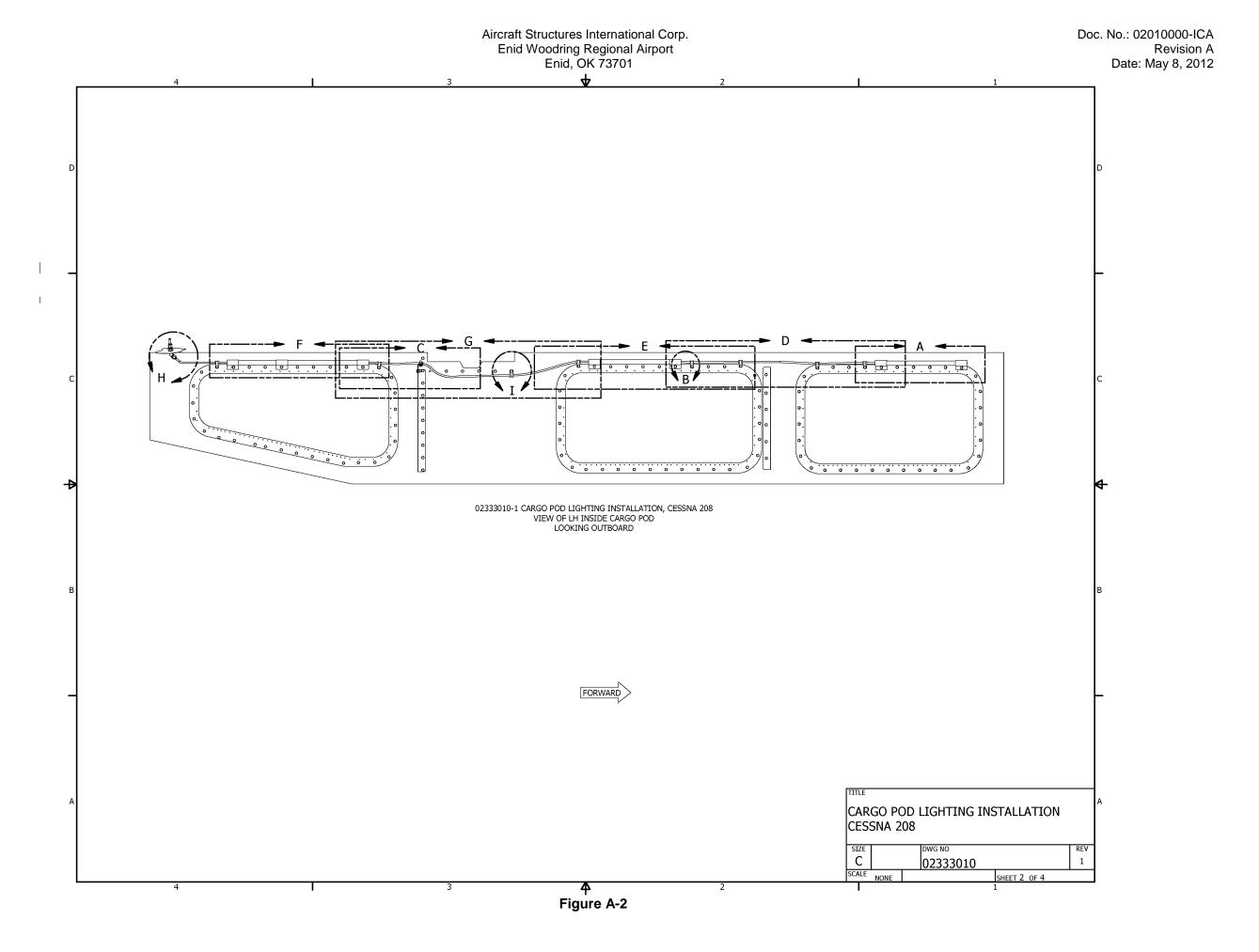
The Airworthiness Limitations section is FAA approved and specifies maintenance required under Sec. 43.16 and 91.403 of the Federal Aviation Regulations unless an alternative program has been FAA approved.

AIRWORTHINESS LIMITATIONS - LOG OF REVISIONS				
REV.	EFFECTED PAGE (s)	DESCRIPTION of REVISION	DATE	
(IR)	All	Initial Release	02/02/2012	

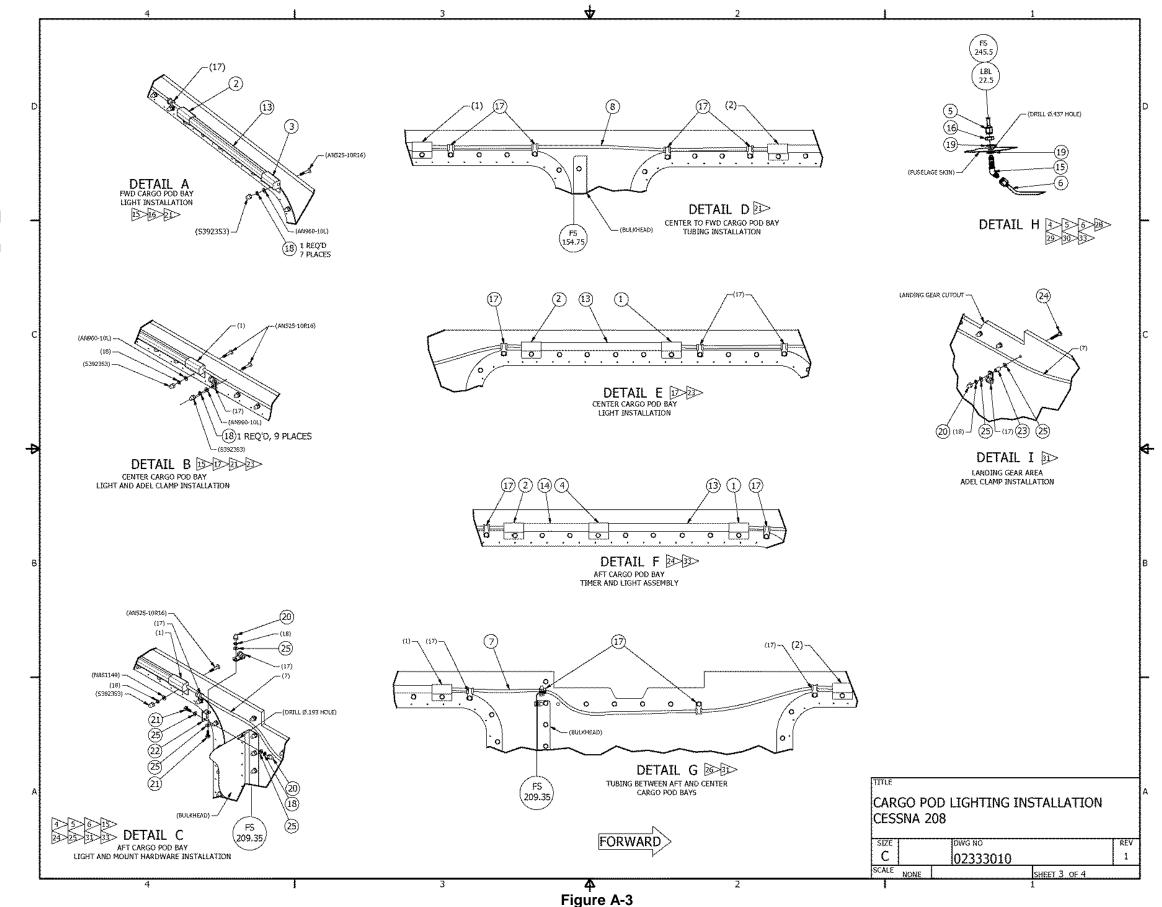
AIRWORTHINESS LIMITATIONS

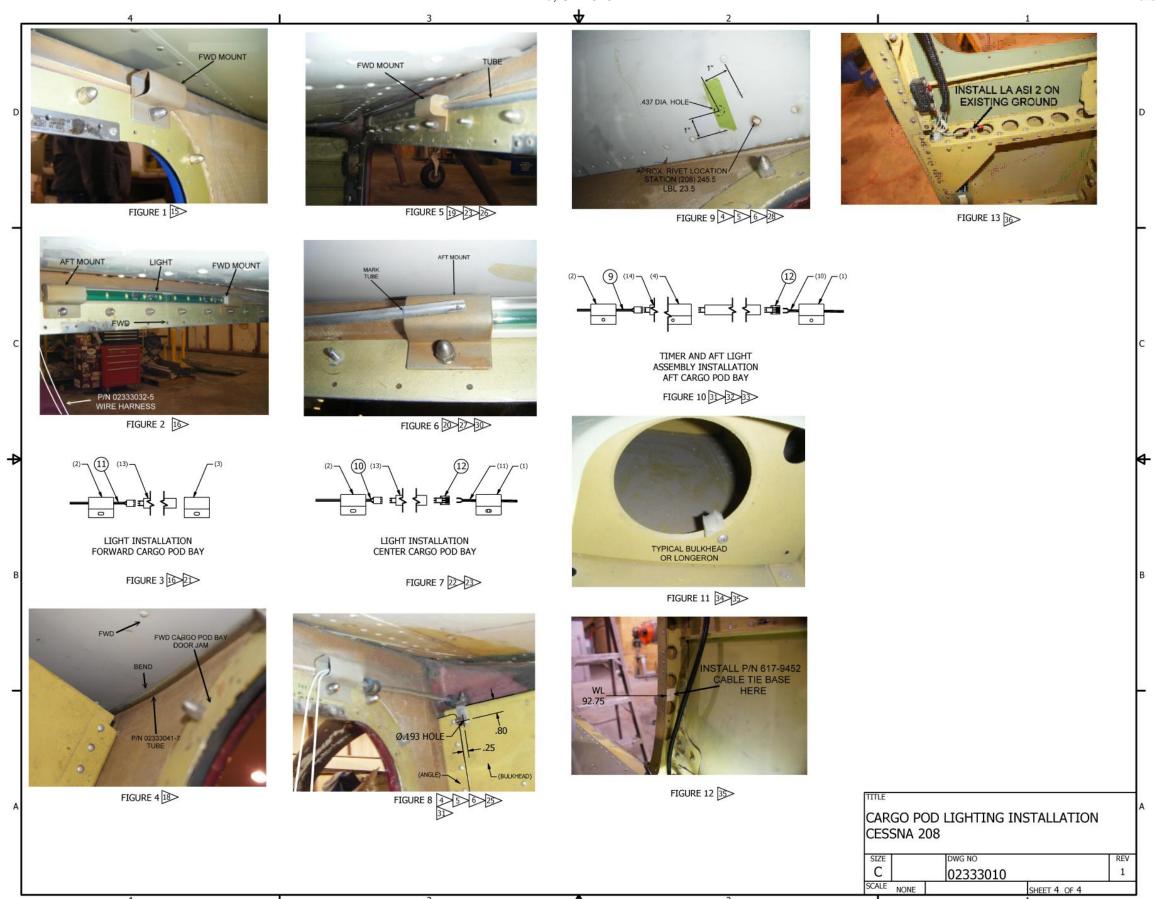
There are no Airworthiness Limitations associated with this installation.





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4 Figure A-4

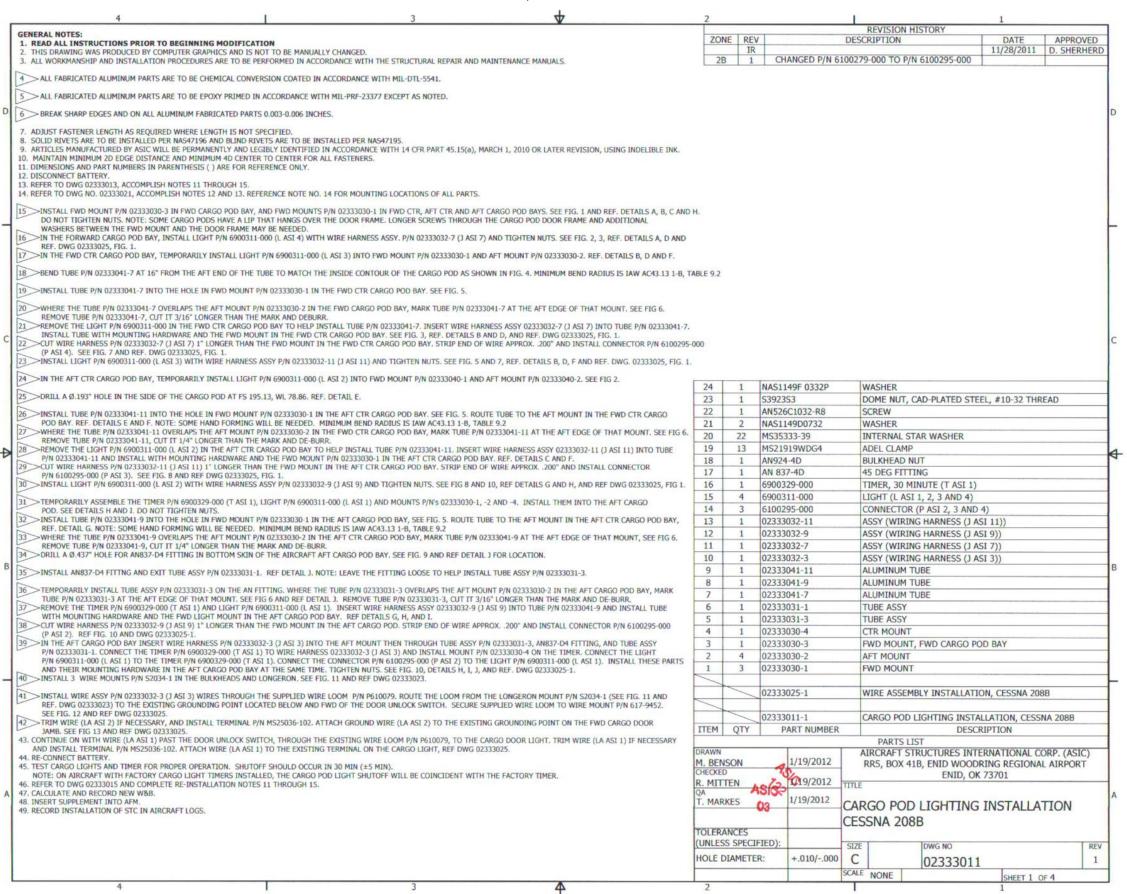
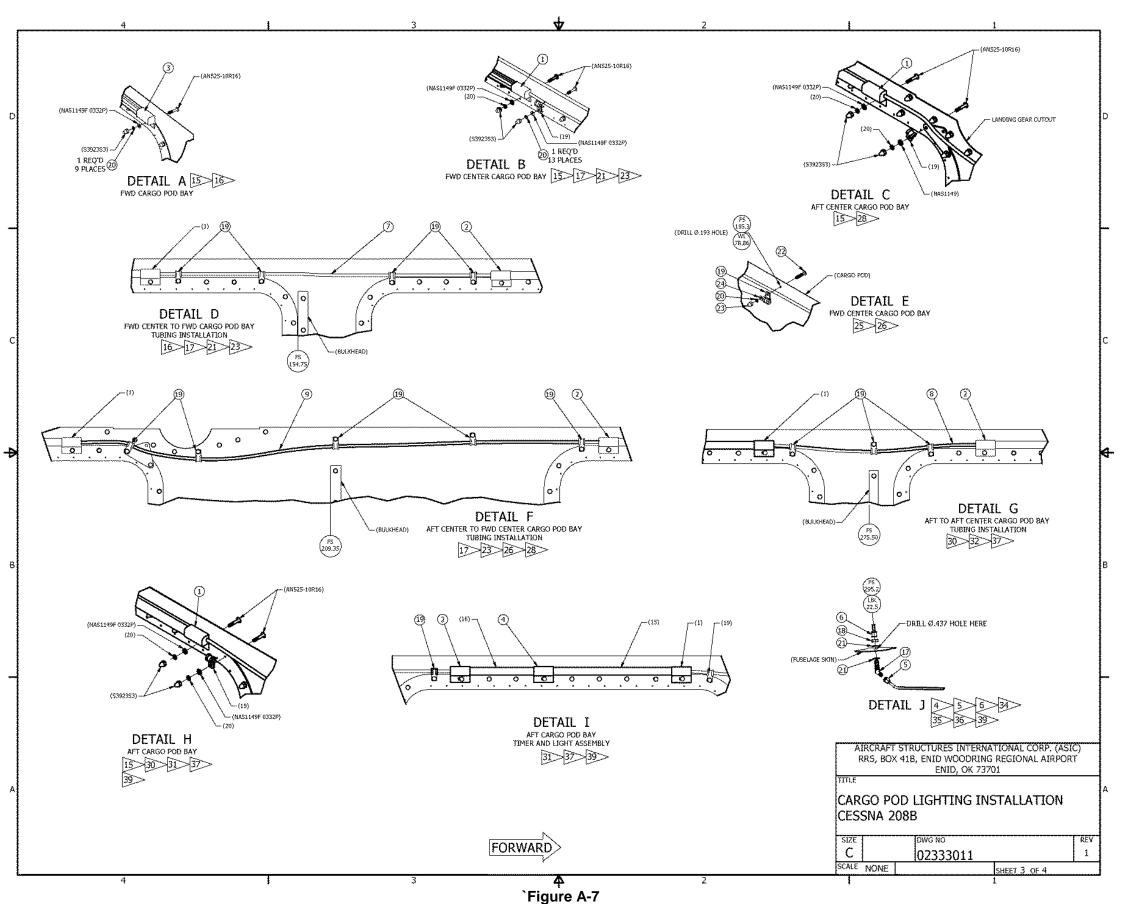


Figure A-6

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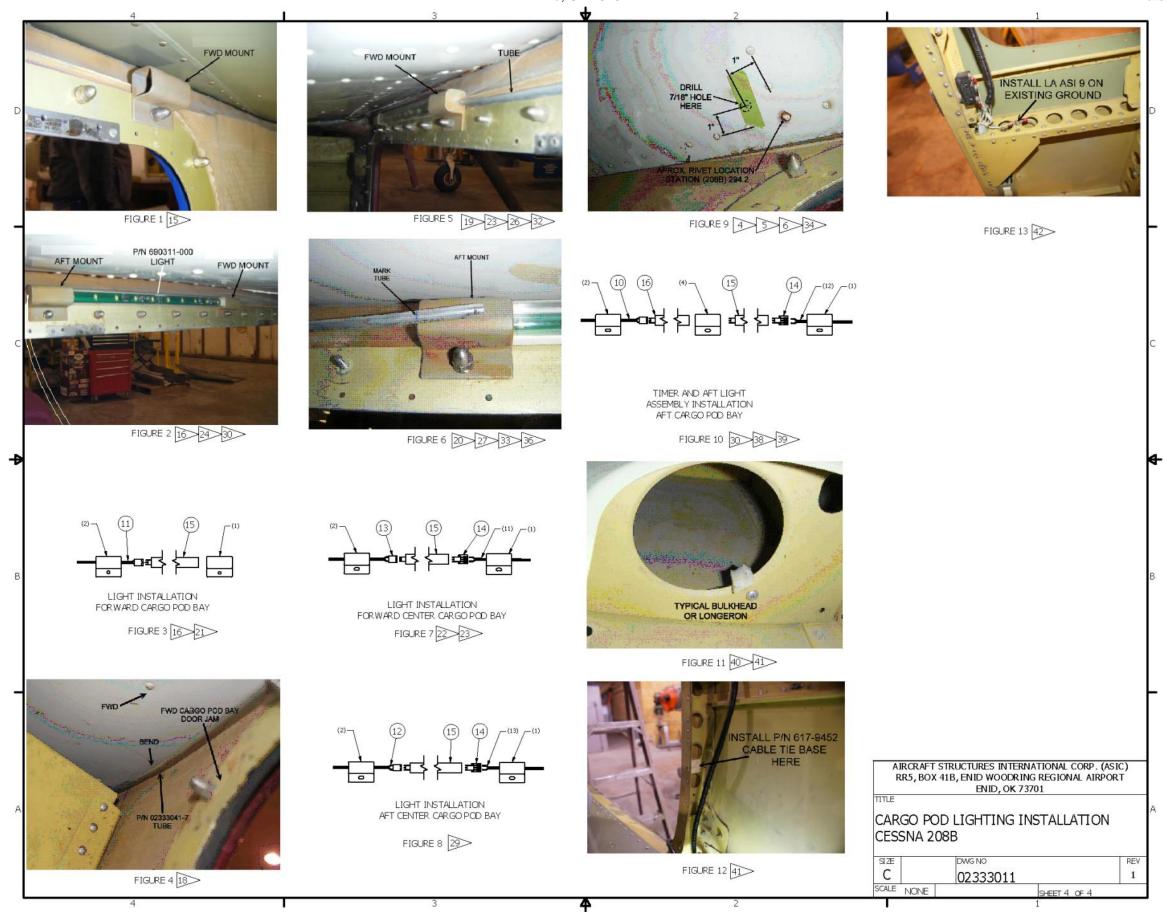


Figure A-8