

CO Guardian LLC
1951 E. AIRPORT DRIVE
TUCSON, AZ. 85756

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CO Guardian LLC
1951 E. Airport Dr.
Tucson, AZ 85756

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INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

CARBON MONOXIDE DETECTOR MODEL 551 INSTALLATION

RECORD OF REVISIONS

No.	Revision Inserted	Date	By	No.	Revision Inserted	Date	By
1	A	7/18/11	J.Larios	9			
2				10			
3				11			
4				12			
5				13			
6				14			
7				15			
8				16			

LIST OF AFFECTED PAGES

PAGE	DATE	REVISION
Cover	7/18/11	A
2	7/18/11	A
3	7/18/11	A
4	7/18/11	A
5	7/18/11	A
6	7/18/11	A
7	7/18/11	A
8	7/18/11	A
9	7/18/11	A

TABLE OF CONTENTS

RECORD OF REVISIONS	2
LIST OF AFFECTED PAGES	2
TABLE OF CONTENTS	3
1. INTRODUCTION	4
1.1 Applicable Documents	4
1.2 Scope	4
1.3 Applicability	4
2. DESCRIPTION	4
3. DOCUMENT CHANGE CONTROL	5
4. SERVICE INFORMATION	5
5. MAINTENANCE INSTRUCTIONS	5
6. TROUBLESHOOTING INFORMATION	5
7. REMOVALS AND REPLACEMENT INFORMATION	6
8. DIAGRAMS	6
9. SPECIAL INSPECTION REQUIREMENTS	6
10. APPLICATION OF PROTECTIVE TREATMENTS	6
11. DATA	6
11.1 Electrical Loads	6
12. RECOMMENDED OVERHAUL PERIODS	6
13. AIRWORTHINESS LIMITATION SECTION	7
14. REVISION	7

1. INTRODUCTION

This document presents the Instructions for Continued Airworthiness (ICA) for the Model 551 series Carbon Monoxide Detector installation in aircraft when the Carbon Monoxide Detector is installed.

1.1 Applicable Documents

Carbon Monoxide Detector Model 551 Owner's Manual 454-201, and installation drawing 551-202.

The operator should place installation manual in an appropriate location for easy access.

1.2 Scope

The scope of this document is limited to information, procedures, requirements, and limitations for Instructions for Continued Airworthiness.

1.3 Applicability

These Instructions for Continued Airworthiness are applicable only to the CO Guardian Model 551-101-002 CO Detector installed in aircraft.

2. DESCRIPTION

The Carbon Monoxide Detector indicator installation consists of one Model 551-101-*** CO Detector, and one dedicated power circuit breaker. The Carbon Monoxide Detector is a stand-alone system with a built-in display.

The CO Detector continuously senses the concentration of carbon monoxide (CO) in the cockpit installation area and provides an aural and visual alarm within 5 minutes or less whenever the carbon monoxide level reaches 50 parts per million (PPM) by volume or above. The warning time is shortened at higher levels of CO concentrations and becomes approximately instant should the carbon monoxide level reach 400 parts per million by volume (PPM) or above. The unit has a built in one-minute delay at startup for the CO sensor to stabilize before it will detect CO.

3. DOCUMENT CHANGE CONTROL

Changes to this document will be uploaded on the website (www.coguardian.com) for owners of the Model 551 CO Detector series within 10 days after the revision is approved. Changes to this document will be indicated by a revision change in the header, vertical lines adjacent to the change, in the Record of Revisions, and in the List of Affected Pages.

4. SERVICE INFORMATION

No servicing of the CO Detector is required.

5. MAINTENANCE INSTRUCTIONS

The carbon monoxide detector and associated equipment consist of certain parts, which do not require periodic scheduled servicing or periodic scheduled preventive maintenance. At every power up the system will go through a self-diagnostic check. The self-test checks for functionality of critical components such as the CO sensor, temperature sensor, pressure sensor, and integrity of the system and remote display will remain off if everything working properly. The unit has a built-in one-minute delay at startup for the CO sensor to stabilize before it will detect CO.

The CO Detector, the power circuit breaker, the interconnect wiring, and the CO Detector mating connector shall be included in general visual inspections for system integrity, security, corrosion and chaffing.

NOTE:

The unit must be returned to the manufacturer for overhaul every 5 years for sensor replacement and recalibration.

NO FIELD SERVICE OR OVEHAUL IS AUTHORIZED.

6. TROUBLESHOOTING INFORMATION

Return the unit to CO Guardian for repair or replacement if during Self-Test of the Model **551** unit, the alert light turns on and stays red, and displays "CO SENSOR FAIL" on the built-in display.

No service or repair can be performed in the field.

7. REMOVALS AND REPLACEMENT INFORMATION

Reference Carbon Monoxide Detector Model 551 Owner's Manual 551-201 and installation drawing 551-202, for installation and removal information.

8. DIAGRAMS

Reference document # 551-202, for installation diagrams.

9. SPECIAL INSPECTION REQUIREMENTS

No applicable

10. APPLICATION OF PROTECTIVE TREATMENTS

Not applicable

11. DATA

11.1 Electrical Loads

Nominal -- 1 watt

12. RECOMMENDED OVERHAUL PERIODS

To maintain airworthiness status of the Model 551 Carbon Monoxide Detector indicator installation, it is mandatory that the unit be returned to CO Guardian for CO sensor replacement and recalibration every five (5) years.

13. AIRWORTHINESS LIMITATION SECTION

NOTE

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

The conditions and limitations for TSO approval of this article are minimum performance standards. Those installing this article, on or in a specific type or class of aircraft, must determine that the aircraft installation conditions are within the TSO Standards. TSO articles must have a separate approval for installation in an aircraft. The article may be installed only according to 14 CFR part 43 or the applicable airworthiness requirements.

To maintain airworthiness status of the Model 551 Carbon Monoxide Detector indicator installation, it is mandatory that the unit be returned to CO Guardian for CO sensor replacement and recalibration every five (5) years.

Because of the sensor calibration and special gases required for testing, if any discrepancies are noted with the unit during installation or during the five (5) year operational life cycle, the unit shall be returned to CO Guardian for repair or replacement.

Return defective and end of service life units to:

CO Guardian, LLC
1951 E. Airport Drive
Tucson, Arizona 85756
www.coguardian.com

1-800-274-8451

14. REVISION

Should any holder of this ICA find a need for a revision to this ICA they are requested to forward a request for change to CO Guardian. The request should contain a clear explanation of the reason for change.

Co Guardian will coordinate all valid changes with the FAA and obtain approval prior to providing ICA changes to registered owners of the Model 551CO Detector installations.