

No: 000312

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Subject: CARBON MONOXIDE DETECTION  
IN CHRISTEN EAGLE II  
AIRCRAFT

Carbon monoxide is poisonous and is one of the main elements of engine exhaust gas. If inhaled, carbon monoxide reduces vital oxygen flow through the body, severely impairing human functions. Continuous exposure to carbon monoxide can result in death. The gas is odorless, colorless, and tasteless, and is therefore difficult to detect, preventing a person from realizing his exposure.

As part of the design and development of the Christen Eagle II aircraft and particularly its exhaust and canopy systems, testing was performed to detect carbon monoxide presence in the cockpit during flight. No traces were found when testing in accordance with standard FAA requirements. Carbon monoxide should not be present in any Christen Eagle II aircraft if the aircraft has been constructed in accordance with the construction manual system.

A few Eagle II builders have reported noticing exhaust gas odors in their aircraft during flight. This could be caused by either improper fit or sealing of fuselage components or by exhaust stacks which are too short, and it should be corrected.

Eagle II builders concerned about carbon monoxide presence can test for it with a low cost FAA-approved carbon monoxide detector. The detector consists of a two-inch square plastic placard with a tan colored spot that turns dark brown when carbon monoxide is present. Information on the detection and effects of carbon monoxide exposure are included with each detector. A pressure-sensitive adhesive disk attaches each detector to a cockpit surface.

Following are the parts required for carbon monoxide testing:

PART NO.	DESCRIPTION	UNIT	QTY REQ
50842-001	DETECTOR, CARBON MONOXIDE	EA	2
30191-001	DISC, ADHESIVE	EA	2
	FIRST CLASS POSTAGE		

ENCLOSURES: None