

No: 000276

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By: FLC Date: 09-16-82 Page: 1 of 2

Send To: PRODUCTS 901 THRU 926

C-0002

C CHRISTEN INDUSTRIES INC.
U 1048 SANTA ANA VALLEY RD.
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Subject: NEW DIGITAL FUEL QUANTITY
AND FUEL FLOW DISPLAY
SYSTEM FOR EAGLE II
AIRCRAFT

Fuel quantity in the Eagle II aircraft is displayed by a sight gage system which is located on the rear of the fuel tank. This system is simple, reliable, and lightweight, but it is limited to displaying to the front or rear seat occupants fuel remaining only for quantities of less than 12 gallons. In addition, if the front seat is occupied, it is difficult for the rear seat occupant to view the gage. These limitations are considered acceptable, since the intended use of the aircraft is competition style aerobatic flying with limited fuel rather than cross-country flying.

The 909-D Fuel Display Kit has been developed to enhance the utility of the Eagle II aircraft without compromising aerobatic use. The enclosed copy of Engineering Sketch X-90149 shows the general layout of the kit components. The digital fuel quantity indicator is located on the instrument panel, and switches for selecting display mode and for testing or resetting the indicator are located on the rear cockpit throttle panel. A fuel flow transducer is located in the fuel line extending from the fuel injector servo to the injection flow divider. The indicator continuously displays either fuel used or fuel flow in tenths of a gallon depending on the position of the rear cockpit display selector switch. The indicator can be reset to zero or to test the display lights by actuating the second switch. The complete system weighs 14 ounces and it is manufactured in conformity with FAA TSOc44a. Fuel measurement accuracy is +/- 2%.

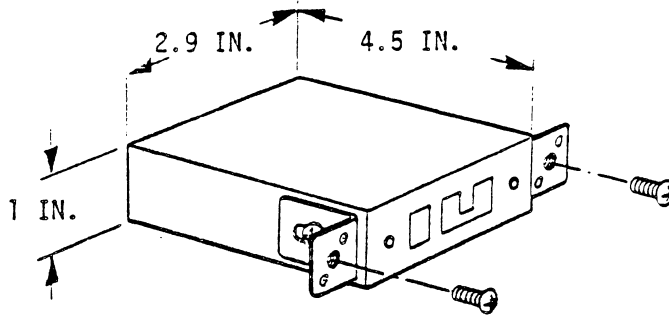
Delivery of 909-D Kits will begin in November 1982, and we are now accepting orders for delivery scheduling as follows:

909-D FUEL DISPLAY KIT, COMPLETE

909-D CRATING CHARGE

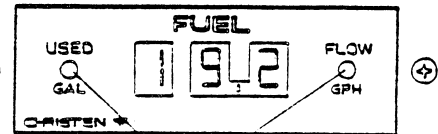
** As with other Eagle II kits, payment is required with order via personal check, money order, or bank credit card.

ENCLOSURES: 1 EA ENGINEERING SKETCH X-90149



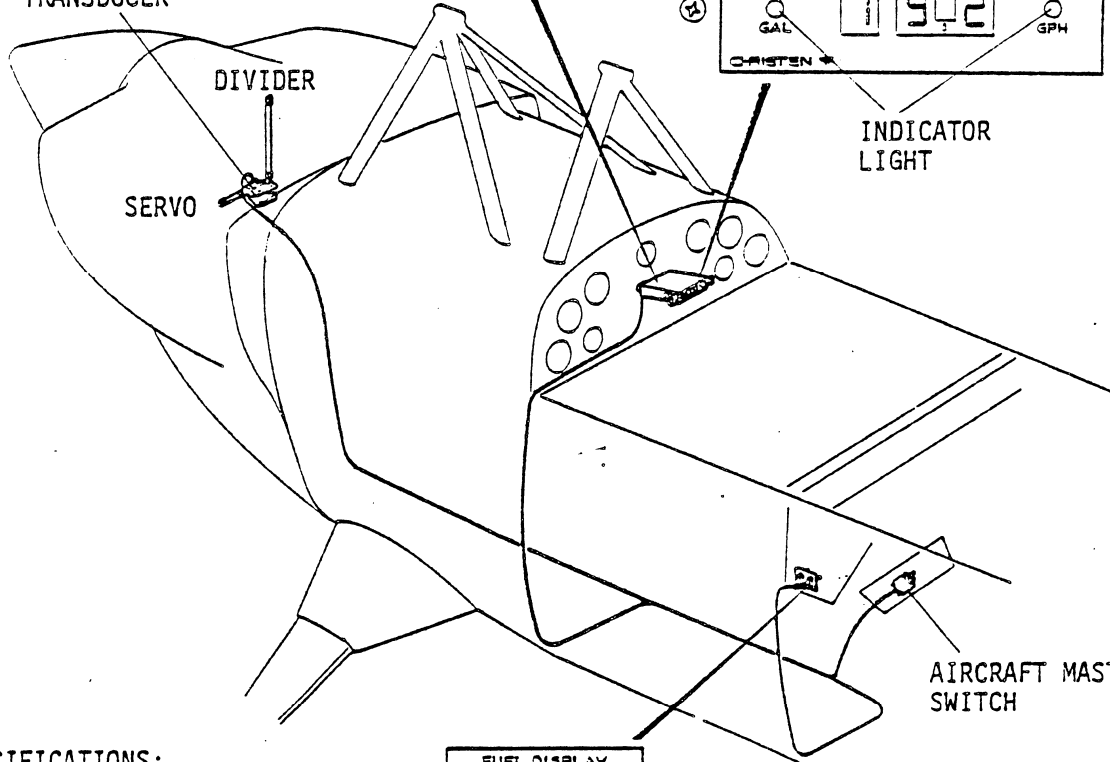
PANEL MOUNTING

FRONT PANEL INDICATOR UNIT WITH PLACARD



INDICATOR LIGHT

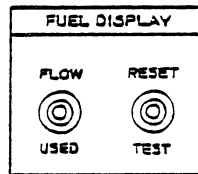
ENGINE MOUNTED TRANSDUCER




AIRCRAFT MASTER SWITCH

SPECIFICATIONS:

- TSOc44a COMPLIANCE
- 14 VOLTS
- FLOWRATE RANGE, 1.5 - 60 GPH.
- ACCURACY 2%
- WEIGHT, 14 OUNCES



REAR PANEL PLACARD WITH SELECTOR SWITCHES

UNLESS OTHERWISE SPECIFIED: TOLERANCES: FRAC. ± 1/64 DEC. XXX ± .005 ANGLES ± 0° 30' DIMENSIONS IN INCHES DO NOT SCALE DRAWING	MATERIAL AND CONDITION NOTED			 CHRISTEN INDUSTRIES HOLLISTER, CALIFORNIA ENGINEERING SKETCH		
	FINISH NONE					
	DRAWN BY I. CLEDE	DATE 8-12-82	PROJECT EAGLE II AIRCRAFT	TITLE 909-D FUEL DISPLAY KIT		
	APPROVED BY	DATE		CODE PA	NO. X- 90149	ISSUE A