

No: 000306

CHRISTEN INDUSTRIES, INC.
1048 SANTA ANA VALLEY ROAD
HOLLISTER, CALIFORNIA 95023
TELEPHONE: (408) 637-7405

By: FLC Date: 05-10-83 Page: 1 of 1

Send To: 909 FUEL SYSTEM KIT

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Subject: RELOCATION OF FUEL FILLER
PORT ON EAGLE II AIRCRAFT

The filler port on the fuel tank of the Eagle II aircraft has been relocated to make fuel filling easier. The port is now forward of the front fuel tank support band and is relatively clear of the cabane struts of the aircraft. The Attached Engineering Sketch X-90161 depicts the new port location and it shows how existing fuel tanks can be modified to have the new port location.

The new filler port location will be standard on fuel tanks supplied in the 909 Kit beginning with serial 0286 with appropriate price increase.

Modification of existing aircraft consists of removing and flushing the fuel tank, welding a disc over the original port, cutting a new port opening and welding the new filler assembly over the opening, re-installing the fuel tank, and making and installing a new fuselage panel for the fuel filler area. Removal of the fuel tank requires care and patience, since there is barely enough clearance for the tank between the upper wing and the fuselage longerons. The modification can normally be performed in eight hours.

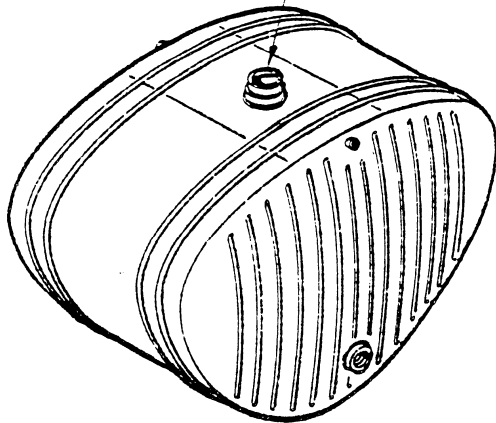
Christen will perform the port modification at the factory on fuel tanks returned shipping prepaid by Eagle builders and owners. The price for this service is \$225.00 including return shipping, but less the 31140-001 panel and 31142-001 panel stiffener.

Following are the parts required for homebuilder modification:

PART NO.	DESCRIPTION	UNIT	QTY REQ
30294-003	DISC	EA	1
30427-501	FUEL FILLER ASSEMBLY	EA	1
31140-001	PANEL, METAL	EA	1
31142-001	STIFFENER	EA	1
	UPS SHIPPING CHARGE		

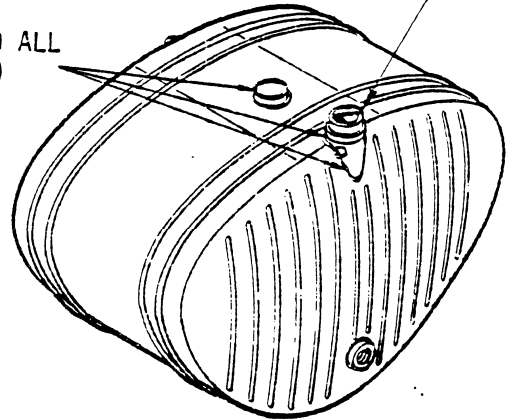
ENCLOSURE: ENGINEERING SKETCH X-90161

ORIGINAL FUEL TANK
FILLER PORT LOCATION



MODIFIED FUEL TANK
FILLER PORT LOCATION

WELDED ALL
AROUND

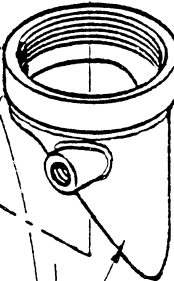
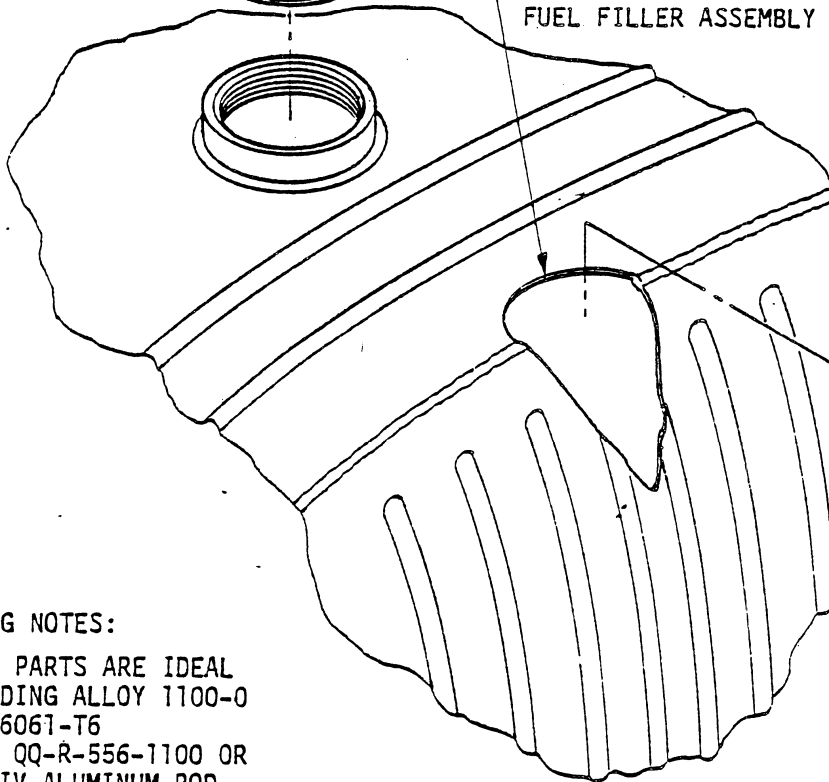
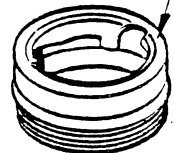


30294-003 DISC
TO PLUG ORIGINAL
PORT



CUT-OUT FOR
INSTALLATION OF
FUEL FILLER ASSEMBLY


ORIGINAL 50147-001
FILLER NECK RE-USED
OR REPLACED



30427-501 FUEL
FILLER ASSEMBLY TO
MAKE NEW PORT

WELDING NOTES:

1. ALL PARTS ARE IDEAL WELDING ALLOY 1100-0 OR 6061-T6
2. USE QQ-R-556-1100 OR EQUIV ALUMINUM ROD

<p>UNLESS OTHERWISE SPECIFIED:</p> <p>TOLERANCES: FRAC. \pm 1/64 DEC. XXX \pm .005 ANGLES \pm 0° 30'</p> <p>DIMENSIONS IN INCHES DO NOT SCALE DRAWING</p>	<p>MATERIAL AND CONDITION</p> <p>NOTED</p>		<p>CHRISTEN </p> <p>CHRISTEN INDUSTRIES HOLLISTER, CALIFORNIA</p>	
	<p>FINISH</p> <p>NONE</p>		<p>ENGINEERING SKETCH</p>	
	<p>DRAWN BY</p> <p>I. CLEDE</p>	<p>DATE</p> <p>5-7-83</p>	<p>PROJECT</p> <p>EAGLE II AIRCRAFT</p>	<p>TITLE</p> <p>FUEL FILLER PORT RELOCATION</p>
<p>APPROVED BY</p>	<p>DATE</p>		<p>CODE</p> <p>PA</p>	<p>NO.</p> <p>X- 90161</p>
				<p>ISSUE</p>