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SERVICE LETTER

MARKETING DIVISION CESSNA AIRCRAFT COMPANY WICHITA, KANSAS 67201

March 5, 1965

65-23

TO: CESSNA SALES AND SERVICE ORGANIZATION

SUBJECT: FUEL SYSTEM MODIFICATION

MODELS AFFECTED: 182 and Skylane

A change in the fuel system design on the 182 and Skylane provides improved fuel venting thereby eliminating possible vapor build-up and engine roughness.

This new design became effective on production at serial numbers:

18255787 and on ----- Standard Range Tanks
18256145 and on ----- Long Range Tanks

The attached Service Kits outline the procedure for modifying earlier aircraft (beginning with 1962 models thru above serial) where symptoms of vapor build-up occur. Aircraft prior to the 1962 models are not affected.

To help cover some of the modification costs, parts will be provided at no charge under the following program.

- 1) Distributors and District Dealers order appropriate Service Kits from the Cessna Service Parts Department (serials affected are shown on the kit Title Page). The kits will be billed out at suggested list prices shown below.

<u>Part Number</u>	<u>Suggested List Price</u>
SK182-38 (Standard Range Tanks) ---	\$ 41.90 (A) each
SK182-41 (Long Range Tanks) -----	*\$393.00 (A) each

*Note: The price differential between the two kits results from the fuel cells having to be replaced on the long range fuel system modification.

(Continued)

- 2) Full kit credit will be issued through the Service Parts Return Program.
 - a) Standard Range Tanks -- By filling out Return Goods Tag and Warranty Application Form P279-12. (Distributors should hold parts that are replaced for field inspection by Regional Service Manager.)
 - b) Long Range Tanks -- By returning original fuel cells through the Cessna Service Parts Return Goods Board.
- 3) To take advantage of this no charge parts offer, claims must be received on or before July 15, 1965.
- 4) Estimated kit installation time is:
 - a) Standard Range Tank Modification -- 9 hours.
 - b) Long Range Tank Modification ----- 19 hours.

(Owner Notification System - None Required)

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE

CESSNA AIRCRAFT COMPANY

SERVICE

Kit

SK182-38A
April 3, 1965

Title FUEL SYSTEM MODIFICATION - STANDARD RANGE TANKS

Cessna®

MODELS AFFECTED

182 & Skylane

SERIALS AFFECTED

182-53599 thru 18255786

PARTS LIST:

	QUANTITY	PART NUMBER	NOMENCLATURE
★	2 1	0716617-1	Line Assy - Fuel Feed (Fwd)
★	2 1	0716617-2	Line Assy - Fuel Feed (Fwd)
★	2 1	0700099-46	Line - Center Interconnect
★	2 1	0700099-47	Line - Center Interconnect
	1	0700099-48	Cross Over Line
	2	0716616-1	Line Assy - Top Interconnect
	2 ft	S-1431-6	Hose(Bulk)
	12	NAS397-12	Clamp
	1	0700702-13-532	Doorpost Shield (LH)
	1	0700702-14-532	Doorpost Shield (RH)
	1	0713210-4	Placard (Map Light)
	1		Installation Instructions

1. DESCRIPTION OF INSTALLATION.

a. Installation of this kit consists of:

- (1) Replacing the existing "cross over" and forward doorpost fuel vent lines with new lines.
- (2) Replacing the upper doorpost upholstery shields with new shields which are formed to accommodate the shape of the new fuel vent lines.

2. INSTALLATION INSTRUCTIONS.

a. Prepare aircraft for modification as follows:

- (1) Loosen headliner at top of windshield and cabin doors sufficiently to expose "cross over" fuel line.
- (2) Remove right and left hand front doorpost shields and loosen upholstery panels sufficiently to expose fuel lines from floorboard up to lower edges of windshield.
- (3) Remove wing root fairings.
- (4) Drain sufficient amount of fuel from tanks and lines to avoid spilling any fuel inside aircraft.

b. (Refer to figure 1.) Fuel Lines Installation.

- (1) Loosen hose clamps and remove existing "cross over" fuel line (1).
- (2) Loosen hose clamps and remove existing right and left hand front doorpost fuel vent lines (7).
- (3) Install new lines, clamps and hose as shown.

- (4) Install new doorpost shields (10). Transfer map light to new LH shield if existing in aircraft. Apply decal furnished in kit to shield for map light identification.
- (5) Refuel aircraft and check for leaks.
- (6) Reinstall all previously removed items of equipment.

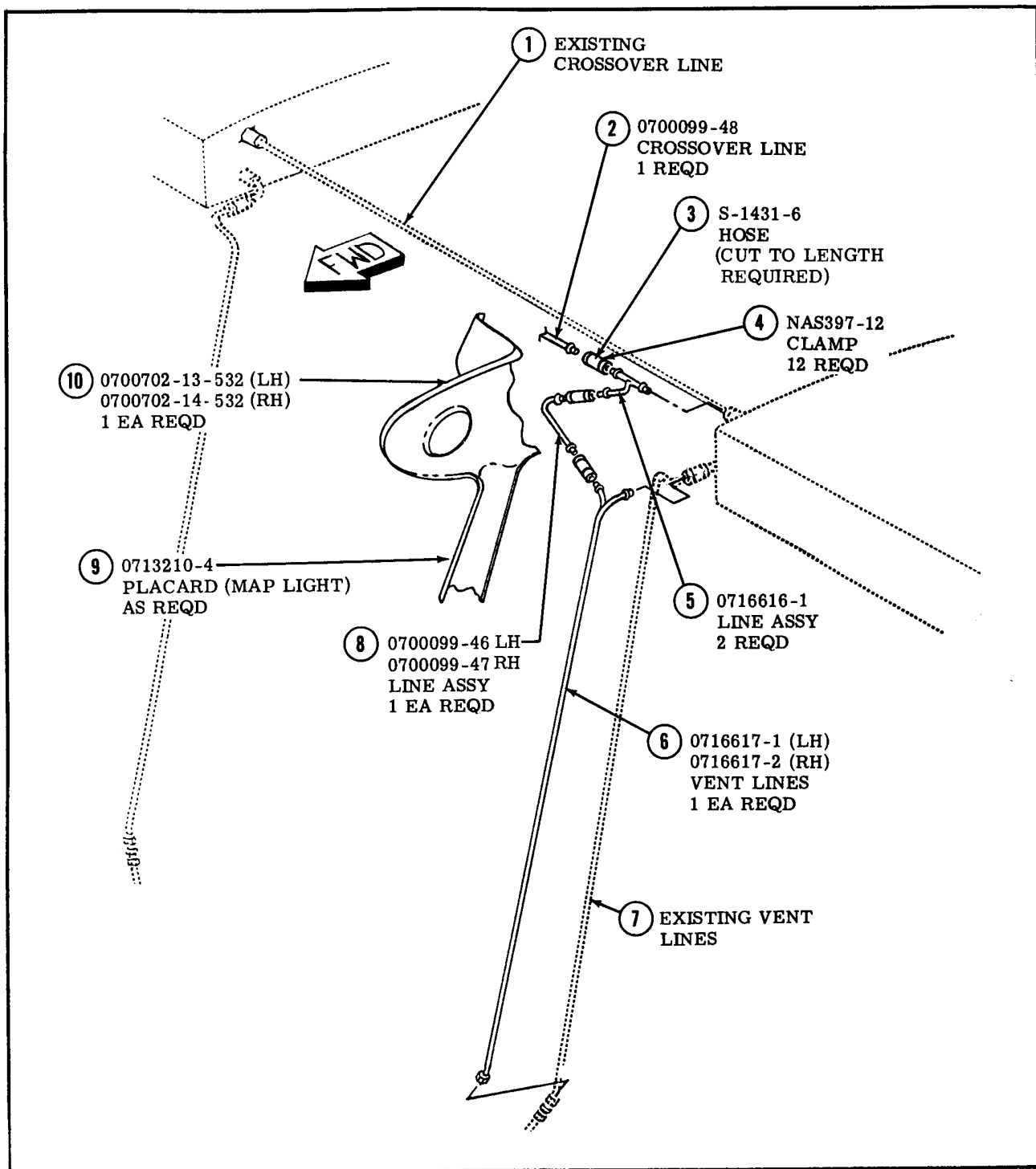


Figure 1. Fuel Lines Installation



SK182-41A
APRIL 3, 1965



Title FUEL SYSTEM MODIFICATION - LONG RANGE TANKS

MODELS AFFECTED

182 & Skylane

SERIALS AFFECTED

18253599 thru 18256144

PARTS LIST:

	QUANTITY	PART NUMBER	NOMENCLATURE
★	2	0716614-2	Tube
★	1	0716617-1	Line Assy - Fuel Feed (Fwd)
★	1	0716617-2	Line Assy - Fuel Feed (Fwd)
★	1	0700099-46	Line - Center Interconnect
★	1	0700099-47	Line - Center Interconnect
	1	0700099-48	Cross Over Line
	2	0716622-1	Line Assy - Top Interconnect
	2 ft.	S-1431-6	Hose (Bulk)
	12	NAS397-12	Clamp
	1	0700702-13-532	Doorpost Shield (LH)
	1	0700702-14-532	Doorpost Shield (RH)
	1	0713210-4	Placard (Map Light)
	1	1200065-23	Fuel Tank (LH)
	1	1200065-24	Fuel Tank (RH)
★	2	S1495-6-2	Hose
★	2	S1588-1	Gasket Fuel Transmitter-External
★	2	0726001-7	Gasket Fuel Transmitter-Internal
	1		Installation Instructions

1. DESCRIPTION OF INSTALLATION.

a. Installation of this kit consists of:

- (1) Replacing the existing 3/8" boss fuel tanks with new 5/8" boss fuel tanks.
- (2) Replacing the existing "crossover" and forward doorpost fuel vent lines with new lines.
- (3) Replacing the upper doorpost upholstery shields with new shields which are formed to accommodate the shape of the new fuel vent lines.

2. INSTALLATION INSTRUCTIONS.

a. Prepare aircraft for modification as follows:

- (1) Loosen headliner at top of windshield and cabin doors sufficiently to expose "cross over" fuel line.
- (2) Remove right and left hand front doorpost shields and loosen upholstery panels sufficiently to expose fuel lines from floorboard up to lower edges of windshield.
- (3) Remove wing root fairings.
- (4) Drain fuel from tanks and lines.
- (5) Disconnect forward and aft fuel lines, crossover line and overboard vent line.
- (6) Remove fuel tanks from aircraft.

b. (Refer to figure 1.) Fuel tank and lines installation.

- (1) Install new fuel tanks using new fuel transmitter gaskets and reconnect overboard vent line.
- (2) Install all new lines as shown.
- (3) Install hose (5) over end of line (7) inside tank and insert beaded end of vent (6) thru rings in hangers (8) and into open end of hose (5). No clamping is required.
- (4) Install new doorpost shields (10). Transfer map light to new LH shield if existing in aircraft.
- (5) Refuel aircraft and check for leaks.
- (6) Reinstall all previously removed items of equipment.

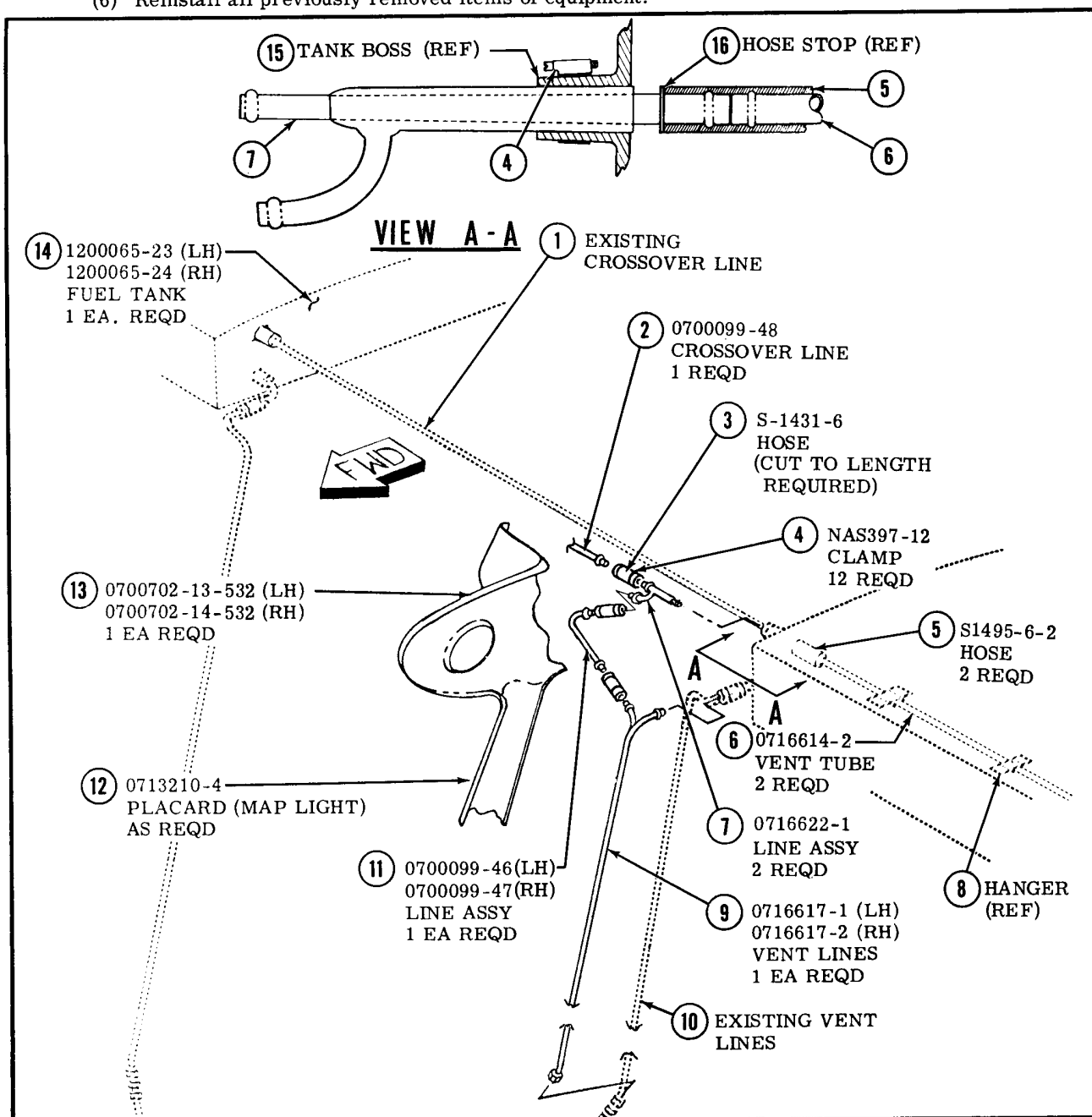


Figure 1. Fuel Lines Installation