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EN-26
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SERVICE BULLETIN

DATE: 10 JANUARY 1986
PAGE 1 OF 1

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SUBJECT: FARGO AUXILIARY FUEL TANKS P/N - A1066-1082

MODELS AFFECTED: All Model 369D, 369E and 369FF Helicopters with Fargo Auxiliary Fuel Tank (P/N A1066-1082, serial numbers 101 through 220) installed and all spares in stock

TIME OF COMPLIANCE: Per attached Service Information Notice.

PREFACE: The information given in this Service Information Notice lists procedures for inspection and repair of Fargo Manufacturing Company auxiliary fuel tank, P/N AW1066-1082. The inspection, repair and owner compliance is to be accomplished in accordance with the instructions given in the attached Fargo Service Notice No. 2

REFERENCE PUBLICATIONS: Fargo Manufacturing Co. Service Notice No. 2 , Revision No. 1, Dated 30 December 1985.

Procedure

- A. Perform inspection/repair of Fargo auxiliary fuel tank, P/N AW1066-1082, in accordance with instructions given in attached Fargo Service Notice No. 2.
- B. Record compliance with this Service Information Notice in the Compliance Record section of the helicopter log book.

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DESIGNERS & FABRICATORS OF PRECISION METAL PRODUCTS

2750 ELSTON AVENUE CHICAGO, ILLINOIS 60647
TELEPHONE 489-2200

FARGO SERVICE NOTICE NUMBER 2 ; Revision No.1
30 December 1985

DATE: 25 October 1985

SUBJECT: Leaks in Fargo Auxiliary Fuel Tanks

BACKGROUND: Leaks have been reported in Fargo Auxiliary Fuel Tanks. An investigation of those leaks reported indicates that insufficient contact of the tank bottom with the cabin floor can cause these leaks to develop. Specifically, if the spacer blocks located on the underside of the tank do not rest firmly on the lateral upright (hat-section stiffener) of the cabin floor, leaks can develop with continued service.

If there is a gap between the right and/or left stainless steel mounting plates and the tank security strap and this gap is closed by torquing the attaching bolts and nuts without the use of shims, the tank can be deformed such that leaks may develop during service.

FAA APPROVAL: The technical aspects of this notice are FAA approved.

MODELS

AFFECTED: All Fargo Auxiliary Fuel Tanks, Model Number AW1066-1082

SERIAL NUMBERS

AFFECTED : Serial Numbers 101 through 220

COMPLIANCE

DATE: February 28, 1986

PREFACE:

This notice is in two parts. Part I gives procedures for inspection and repair (if required). Part II requests owner acknowledgement of completion of Part I, and feedback regarding the evidence of: (1) fuel tank leaks and (2) proper spacer block-to-floor support contact.



PART I INSPECTION AND REPAIR

- A. Remove the auxiliary fuel tank from the helicopter.
- B. With tank filled with fuel, visually inspect the tank for any evidence of a fuel leak.

If a fuel leak is found:

- (1) Remove all fuel from the tank and field repair per AC 43.13-1A or return to Fargo for repair.

NOTE: Refer to Part II, Step C.
 for further instructions
 for returning tanks for repair

- (2) Install the repaired tank in accordance with Fargo Installation Manual 102, revised (Incorporating the remainder of Part I of this notice).

If no leak is found, proceed to step C.

- C. Visually inspect the fuel tank spacer blocks for evidence of wear, surface rubbing or chaffing.
- D. Visually inspect the lateral upright floor stiffener (hat-section) for any evidence of surface wear. At the points where the spacer blocks bear upon the lateral upright, there should be some indication of surface contact.
- E. Cut a 3/4" wide inspection slot in the front of the tank cleat at each of the two spacer blocks. These slots must be deep enough to expose the bottom of the two spacer blocks. See Figure 1, Detail 1, page 6 of 6.
- F. Reinstall tank in the aircraft.
- G. Inspect at the newly cut inspection slots to ensure that the two spacer blocks are resting firmly on the floor stiffeners.
- H. 1. If there is no space between the blocks and the floor stiffener, record compliance with Part I of this notice in the Helicopter Log Book, and proceed to Part II.



2. If there is any space between the bottom of a spacer block and the floor stiffener, repair steps I through M must be performed. See Figure 1, Detail 2, Page 6 of 6.

- I. Machine two (2) separate spacers from aluminum that will:
 - (1) Fill the space between the bottom of the spacer blocks and the floor stiffener, and,
 - (2) Provide a .020" to .032" vertical clearance between each tank mounting bracket (P/N A-1080, item 2) and its mating mounting plate (P/N A-1081, items 19 and 20). See Details on Page 6 of this notice.
- J. Remove the paint from the bottom of the spacer blocks under the auxiliary fuel tank.
- K. With a two (2) part epoxy glue suitable for metal-to-metal bonding, glue the new spacers to the bottom of the old spacer blocks.
- L. After the glue has cured, install the tank in the aircraft.
- M. If there are gaps between the right and/or left stainless steel mounting plates and tank security strap, these gaps must be shimmed so no preloading or stressing of the tank occurs.
- N. All plastic upholstery must be returned to its proper place before placing tank in position.
- O. Refer to the Fargo Auxiliary Jet Fuel System Installation Manual 102 for installation procedures.
- P. When installing the Fargo Auxiliary Fuel System, all work performed must be in accordance with the Federal Aviation Administration AC 43.13-2A, Acceptable Methods, Techniques, and Practices Aircraft Alterations.
- Q. Record compliance with Part I of this notice in the Helicopter Log Book.

Note: Weight and balance are not affected by this repair.



PART II

OWNER COMPLIANCE

Owners are requested to reply directly to Fargo providing the following information on these sheets. Reply to be sent to:

Fargo Manufacturing
2750 N. Elston Avenue
Chicago, Illinois, 60647

A. Please enter Tank Serial Number: _____

B. Was Part I of this notice complied with?

Please Check One: _____ YES
_____ NO

C. Was there any evidence of a fuel leak in the auxiliary fuel tank?

Please Check One: _____ YES
_____ NO

NOTE: Owners are advised that any Fargo Auxiliary Fuel Tank found to have a leak as a result of compliance with this notice, will be repaired by Fargo. The expense for this repair will be borne by Fargo provided:
(1) Owner agrees to pay freight to and from Fargo
(2) This notice is complied with by February 28, 1986 and
(3) If it is necessary to send the tank to Fargo, please remove the bottom red frangible fitting, Fargo Kit Part #A-1040 and the aluminum assembled fuel cell cover, Fargo Kit Part #AW-1062. Cover tank openings before shipping.

D. Did the inspection specified by Part I, Step G reveal a space between the spacer block(s) and the floor stiffener?

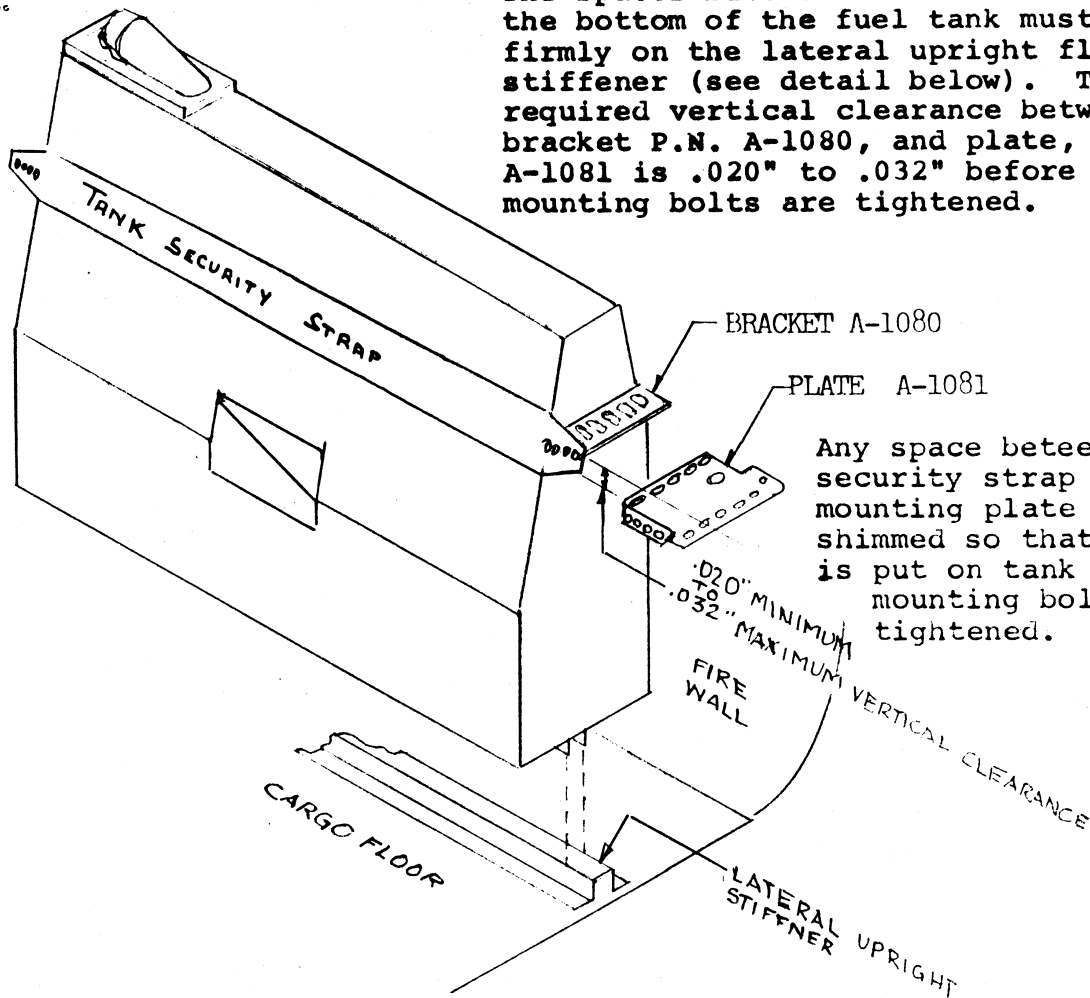
Please Check One: _____ YES
_____ NO

Please Check One: _____ BOTH
_____ LEFT ONLY
_____ RIGHT ONLY



NOTE:

The spacer blocks in the "U" channel on the bottom of the fuel tank must rest firmly on the lateral upright floor stiffener (see detail below). The required vertical clearance between bracket P.N. A-1080, and plate, P.N. A-1081 is .020" to .032" before the mounting bolts are tightened.

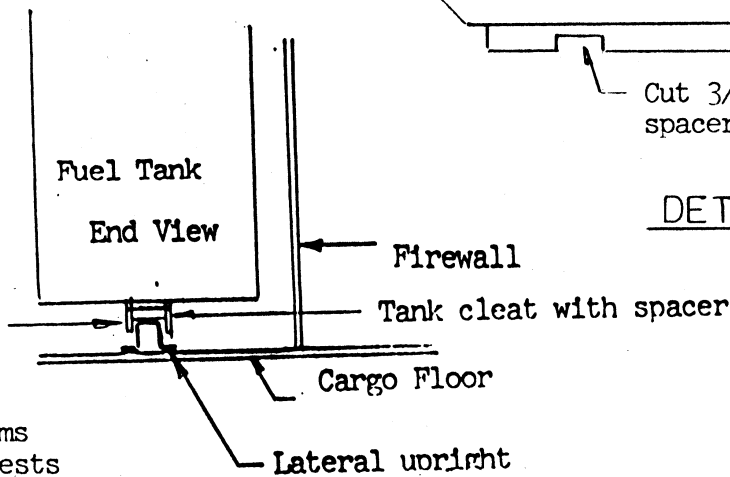
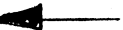


FUEL TANK, FRONT VIEW

Cut 3/4" wide slots at each spacer block location.

DETAIL 1

FWD



DETAIL 2

If airspace exists when tank is placed in position, use additional spacer shims to insure that tank rests firmly on the upright floor stiffener.

FIGURE 1