



# SERVICE LETTER

DATE: 12 SEPTEMBER 1980  
PAGE 1 OF 1

## DETROIT DIESEL ALLISON COMMERCIAL SERVICE LETTER CSL-1079 RE: HIGH PRESSURE FUEL FILTER (CECO FUEL SYSTEM)

TO: All owners and operators of Hughes Helicopters

MODELS AFFECTED:

All Model 369H Series Helicopters equipped with CECO Fuel System

REFERENCE:

500 Series - Basic HMI, Issued 1 October 1972; Revision No. 7, 15 December 1976  
Detroit Diesel Allison Commercial Service Letter CSL-1079 Revision No. 1, 30 July 1980

Field reports received by Detroit Diesel Allison indicate that improper installation of the CECO high pressure fuel filter assembly can result in a serious restriction of fuel flow.

The subject DDA Commercial Service Letter CSL-1079, reprinted as a part of this letter, has been revised to add a warning and instructions to operators to inspect the CECO high pressure filter assembly for proper installation, and thus ensure adequate fuel flow.

A handwritten signature in black ink that reads 'Edward Koch'.

Edward Koch, Manager,  
Customer Service Department  
Hughes Helicopters, Inc.  
Product Support Department

**COMMERCIAL SERVICE LETTER****Detroit Diesel Allison** Division of General Motors Corporation  
Indianapolis, Indiana 46206Page 1 of 2  
April 13, 1979  
FAA-DER Approved**SUBJECT:** High Pressure Fuel Filter (CECO Fuel System)

Reports have been received that in-service high-pressure fuel filter elements have bulged and deformed resulting in serious restriction of fuel flow.

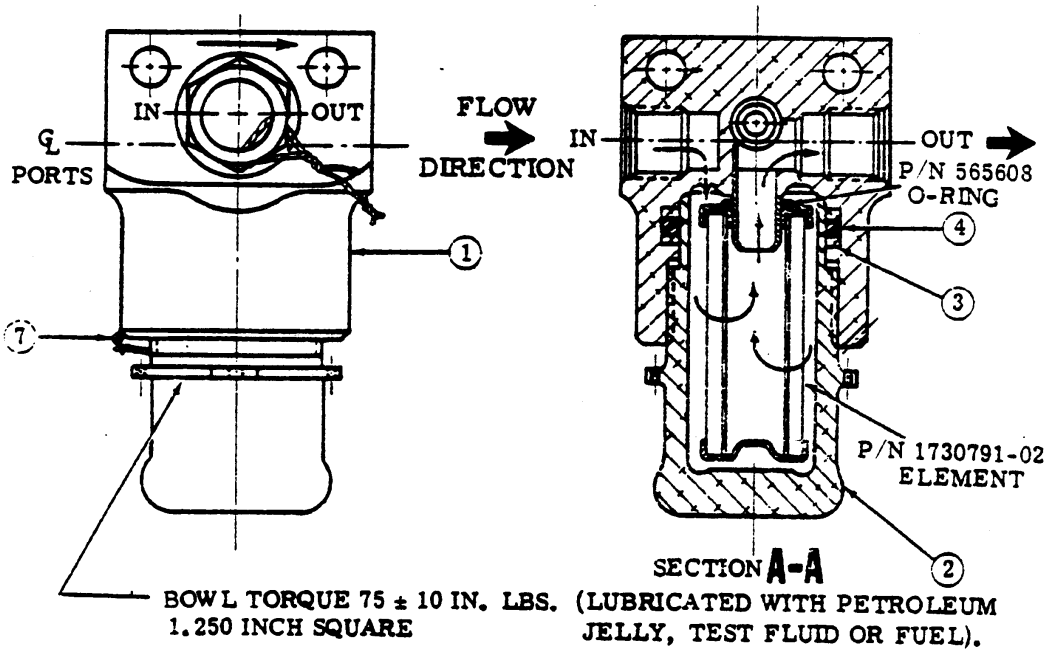
This is caused by incorrect filter assembly installation allowing the fuel flow from the fuel pump to enter the filter through the "OUT" port and flow to the inside of the filter element. This reverse flow can bulge the element and in extreme cases severely limit fuel flow.

All operators are urged to inspect the high pressure filter assembly for proper installation:

- Ensure that fuel pump outlet flow is connected to the filter assembly "IN" port.
- Ensure that the filter assembly "OUT" port is connected to the fuel control assembly.
- Correct filter flow direction is indicated by the arrow on the filter head assembly.
- Observe inlet "IN" and outlet "OUT" markings by removal of mounting bracket where necessary.

Refer to 250-C20, C20B CEB-1095 for installation instructions.

Revision No. 1  
July 30, 1980



H. P. FUEL FILTER ASSEMBLY  
FIGURE 1

WARNING

INCORRECT FILTER INSTALLATION CAN RESULT IN SERIOUS RESTRICTION OF FUEL FLOW OR FLAME OUT. ENSURE THAT FILTER ASSEMBLY IS INSTALLED WITH THE FUEL PUMP OUTLET PRESSURE CONNECTED TO THE FILTER "IN" PORT AND THE FILTER "OUT" PORT IS CONNECTED TO THE FUEL CONTROL ASSEMBLY. CORRECT FILTER FLOW DIRECTION IS INDICATED BY THE ARROW ON THE FILTER HEAD ASSEMBLY. REFER TO FIGURE 1.

JPW/cls

*L. O. Davidson*  
L. O. Davidson  
Service Manager  
Gas Turbine Engines

Revision No. 1  
July 30, 1980  
Published April 13, 1979