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AVCO LYCOMING DIVISION
STAFFORD, CONNECTICUT

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TO DISTRIBUTION
FROM J. HOFFMAN
SUBJECT FUEL PRESSURE REQUIREMENT TO HMU
REFERENCE SERVICE ENGINEERING MEMO NO. 18

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The specification for the AGT 1500 engine fuel pressure requirements, SB-X14110, Paragraph 3.2.1.14.1 requires 2 PSIG minimum to 22 PSIG maximum and a flow rate of 850 LB/HR FOR THE VEHICLE FUEL SYSTEM as measured at the engine mounted fuel pump inlet.

There has been no change to that specification paragraph. The engine fuel system is designed to those pressures identified in the specification. Fuel pressures above those specified can damage the fuel pump seal or if the pressure is high enough it can push the foot valve off its seat and allow fuel to drain into the fuel nozzle and engine combustor area.

If the fuel pump seal is damaged any fuel pressure will drain and flow thru the AGB drain port and pose a hazard. Although diesel II fuel auto ignition point is high and under normal conditions will not ignite in the engine compartment, a fire from another source in the engine compartment can ignite that draining fuel and cause severe engine compartment damage.

There have been numerous engine compartment fires reported and to my knowledge none have been identified as fuel system caused. But some have been reported as the fuel adding to an existing fire.

Under no circumstances should a vehicle be allowed to be sold at either tank plant when the vehicle fuel system pressure is above the designed specification.

- GDLS
- G. Stathopoulos
 - J. Trumbower
 - H. Martin

1. Ensure all vehicles have their fuel system pressure checked.
2. Report those vehicles that are beyond spec for reference.
3. Inform G.D. & Army Personnel of any vehicle not conforming to the fuel pressure specification and request they take action to correct each discrepancy.

Please contact me if you have questions regarding this memo.

Jack Hoffman
J. HOFFMAN, Manager
AGT 1500 Field Support

