

Airworthiness Directive

► Federal Register Information

▼ Header Information

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

Amendment 39-4649; AD 83-10-01

Airworthiness Directives; Piper Model PA-24-400, PA-30, and PA-39 Airplanes
PDF Copy (If Available):

▼ Preamble Information

AGENCY: Federal Aviation Administration, DOT

DATES: Effective June 15, 1983.

▼ Regulatory Information

83-10-01 PIPER: Amendment 39-4649. Applies to Models PA-24-400 (S/Ns 26-2 through 26-148); PA-30 (S/Ns 30-2 through 30-2000); and PA-39 (S/Ns 39-1 through 39-155) airplanes certificated in any category.

Compliance: Required as indicated, unless already accomplished.

To prevent retention of water contamination and deterioration of the fuel system, accomplish the following:

(A) Within the next 50 hours time-in-service after the effective date of this AD and at intervals not exceeding 50 hours time-in-service thereafter, clean and inspect the fuel selector valve strainer filter on all airplanes listed in the applicability statement for water accumulation, contamination, and corrosion of the fuel strainer filter components in accordance with the following procedures:

(1) Gain access to the fuel strainer installation by removing the floor panel in the center section of the fuselage (PA-30, PA-39) or between the two front seats (PA-24-400).

(2) Remove, drain, and clean fuel strainer housing and filter discs in accordance with the following procedures:

a. Separate filter housing from selector valve assembly by removing attaching screws.

b. Remove the filter disc assembly from stem by compressing filter retainer spring and removing retainer washer.

c. In the event that contamination is found, flush fuel tanks and selector valves and clean filter assemblies using the following procedures:

(i) Plug open ends of filter disc to prevent disc dirt from entering.

(ii) Wash the disc with suitable cleaner or solvent. Heavy dirt, lint, or dust deposits may be removed from disc with a soft bristle paint brush.

(iii) Drain or blow off cleaning fluid and remove plugs.

(iv) Inspect bowl gasket and disc filter for damage and replace if necessary.

(B) Within the next 100 hours time-in-service after the effective date of this AD, replace the existing fuel selector strainer filter housing on the Model PA-30 (S/Ns 30-2 through 30-1744) airplanes with Piper P/N 757187 conical-shaped stainless steel strainer housing in accordance with Piper Service Letter No. 589, dated August 18, 1971.

NOTE: This may have been previously accomplished per Piper Service Spares Letter No. SP-289 or Service Letter No. 589.

(C) Within the next 50 hours time-in-service after the effective date of this AD, fabricate and install a permanent placard as described below having letters with 1/8 inch minimum height on the inside of the hinged access door or adjacent location clearly visible to the pilot during his preflight check.

(1) On Model PA-24-400 airplanes the placard must read as follows:

"THE FUEL SYSTEM SHALL BE DRAINED DAILY PRIOR TO FIRST FLIGHT AND AFTER REFUELING TO AVOID THE ACCUMULATION OF WATER OR SEDIMENT USING THE FOLLOWING PROCEDURES:

a. Move the quick drain valve handle to full aft position to open the strainer quick drain for a few seconds with the fuel cell selector on each cell, including the auxiliary tanks. Allow enough fuel to flow to clear lines as well as the strainer. Positive fuel flow shut-off can be observed through the clear plastic tube.

b. Ensure that the drain valve positively closes.

c. If it is not possible to observe fuel draining through the clear plastic tube because of a loss in its transparency, replace with a new tube.

CAUTION: When draining any amount of fuel, care should be taken to ensure that no fire hazard exists before starting engine."

(2) On Model PA-30 and PA-39 airplanes, the placard must read as follows:

"THE FUEL SYSTEM SHALL BE DRAINED DAILY PRIOR TO FIRST FLIGHT AND AFTER REFUELING TO AVOID THE ACCUMULATION OF WATER OR SEDIMENT USING THE FOLLOWING PROCEDURES:

a. Pull up on the knob located in the center of the selector valves to open the strainer quick drain for a few seconds with the fuel tank selector on the main tank, then change the tank selector to each auxiliary tank and repeat the process. Allow enough fuel to flow to clear the lines as well as the strainer. Positive fuel flow shut-off can be observed through the clear plastic tube which carries the fuel overboard.

b. Ensure that the drain valve positively closes.

c. If it is not possible to observe fuel draining through the clear plastic tube because of a loss in its transparency, replace with a new tube.

CAUTION: When draining any amount of fuel, care should be taken to ensure that no fire hazard exists before starting engine."

(D) If insufficient space is available to contain placards with the above information, the following placard may be substituted.

"BEFORE THE FIRST FLIGHT OF EACH DAY AND AFTER REFUELING DRAIN THE FUEL SYSTEM IN ACCORDANCE WITH PIPER SERVICE LETTER 851 PART B, ITEM 2.a. and 2.b.

(E) The fabrication and installation of the placards required by paragraph (C) or (D) of this AD may be accomplished by the owner/operator of the airplane who must make an entry in the Airplane Maintenance Record indicating compliance with paragraph (C) or (D) of the AD.

(F) The intervals between repetitive inspections required by this AD may be adjusted up to 10 hours time-in-service to allow them to be accomplished concurrent with other scheduled maintenance on the airplane.

(G) Airplanes may be flown in accordance with FAR 21.197 to a location where this AD may be accomplished.

(H) An equivalent method of compliance with this AD may be used when approved by the Manager, New York Aircraft Certification Office, Federal Aviation Administration, ANE-170, 181 South Franklin Avenue, Room 202, Valley Stream, New York 11581.

This amendment becomes effective on June 15, 1983.

▼ Footer Information

▼ Comments

FAA.gov Home | Privacy Policy | Web Policies & Notices | Contact Us | Help

Readers & Viewers: PDF Reader | MS Word Viewer | MS PowerPoint Viewer | MS Excel Viewer | WinZip