Airworthiness Directive Schedule
Aeroplanes
Piper PA-30 Series (Twin Comanche)
28 June 2018

Notes:
1. This AD schedule is applicable to Piper PA-30 aircraft manufactured under FAA Type Certificate No. A1EA.
2. The Federal Aviation Administration (FAA) is the National Airworthiness Authority (NAA) responsible for the issue of State of Design Airworthiness Directives (ADs) for these aircraft. State of Design ADs can be obtained directly from the FAA web site at http://rgl.faa.gov/Regulatory_and_Guidance_Library/rgAD.nsf/MainFrame?OpenFrameSet

The date above indicates the amendment date of this schedule.
4. New or amended ADs are shown with an asterisk *

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2015-24-05 Fuel System – Inspection ............................................................................................. 10
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DCA/PA30/1 Vacuum Pump Splined Coupling Replacement - Modification
Applicability: Model PA-30 S/N 159 through to 166.
Requirement: Piper SB 218
Compliance: As detailed
Effective Date: 30 November 1963

DCA/PA30/6 Cancelled – Once only inspection, purpose fulfilled

DCA/PA30/8 Cancelled – FAA AD 2017-15-05 refers
Effective Date: 28 August 2017

DCA/PA30/9A Stall and Airspeed Limitations - Placards Revision - Modification
Requirement: Piper SB 301A
Compliance: Before next flight
Effective Date: 31 October 1970

DCA/PA30/10 Auto-pilot Servo and Bridle Cable Installations - Inspection
Applicability: Model PA-30 S/N 30-1255 through 30-2000 equipped with a 111, 111B or 111B-1 automated flight control system installation.
Requirement: Piper SB 320A
Compliance: Within the next 100 hours TIS and thereafter at every periodic inspection.
Effective Date: 31 July 1972

DCA/PA30/11 Alternator System - Modification
Requirement: Piper SB 306
(FAA AD 70-22-05 refers)
Compliance: Within the next 100 hours TIS if aircraft operate under IFR
Effective Date: 31 December 1970

DCA/PA30/12 Emergency Gear Extension Placard - Modification
Requirement: Piper SL 574
Compliance: Next periodic inspection
Effective Date: 31 December 1971

DCA/PA30/13 Air Flow - Modification
Requirement: Piper SL 558
Compliance: By 31 March 1972
DCA/PA30/14A Aileron Nose Rib - Inspection

Applicability: Model PA-30 S/N 30-1 and up not incorporating Piper kit P/N 763893.

Requirement: Inspect per Piper SL
(FAA AD 79-20-10 refers)

Compliance: At intervals not exceeding 100 hours TIS

Effective Date: DCA/PA30/14 - 1 July 1974
DCA/PA30/14A - 9 November 1979

DCA/PA30/15A Stabilator Torque Tube Bearing Support Fittings - Inspection

Applicability: Model PA-30 S/N 30-1 through 30-2000 that have not incorporated Piper P/N 760 835 (Hi-Shear Rivet Replacement Kit) on all four stabilator torque tube bearing support fittings.

Requirement: To prevent loss of pitch control because of looseness of the stabilator torque tube bearing support fittings, accomplish the following:-
Inspect the stabilator torque tube bearing support fittings for looseness per Piper SB 411A. If looseness is found incorporate Piper P/N 760 835 (Hi-Shear Rivet Replacement Kit) on the affected fitting prior to further flight.
(FAA AD 94-13-10 refers)

Compliance: Within next 100 hours TIS and thereafter at intervals not to exceed 100 hours TIS.

Effective Date: DCA/PA30/15 - 3 August 1974
DCA/PA30/15A - 2 September 1994

* DCA/PA30/16B Stabilator Torque Tube Assembly Bolts - Inspection

Note: DCA/PA30/16B revised to introduce a terminating action for requirement 2.


Requirement: To detect corroded stabilator torque tube assembly bolts accomplish the following:-
1. Inspect stabilator attachment bolts (4 places) per Piper SL 667A. Replace bolts found corroded before further flight.
(FAA AD 74-13-03 refers)
2. Inspect the following bolts for corrosion paying particular attention to their condition where they pass inside the stabilator torque tube;
   (a) Bolts (2 places), attaching the balance weight tube to stabilator torque tube assembly. Replace bolts found corroded before further flight.
   (Occurrence 95/2477 refers)
   (b) Bolts (2 places), attaching the collar assembly to stabilator torque tube assembly. Replace bolts found corroded before further flight.

Compliance: 1. Within next 100 hours TIS after 19 January 1996 (the effective date of DCA/PA30/16A) and thereafter at intervals not to exceed 3 years or 500 hours TIS whichever is the sooner. May be discontinued upon fitment of P/N 502 329 or 502 342 corrosion resistant bolts.
2. Within next 100 hours TIS after 19 January 1996 (the effective date of DCA/PA30/16A) and thereafter at intervals not to exceed 3 years or 500 hours TIS whichever is the sooner. The repetitive inspections per requirement 2.(a) and/or 2.(b) may be discontinued upon fitment of equivalent corrosion resistant bolts approved by the aircraft manufacturer.
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DCA/PA30/22  Landing Gear Extension System - Inspection

Applicability:  All model PA-30

Requirement:  1. Inspect per Piper SL 782B.
               2. inspect MLG Bungee cords for frayed protective covering, breaks, or soft areas and renew any found defective.
               3. Renew Bungee cords.
               (FAA AD 77-13-21 refers)

Compliance:  Inspection per (1) and (2) - At 1000 hours TIS and thereafter at intervals not exceeding 1000 hours TIS or 12 months, whichever is the sooner, for (2). Aircraft with 1000 hours or more TIS shall be initially inspected within next 100 hours TIS, unless already accomplished. Bungee renewal - At intervals not exceeding 500 hours TIS or 3 years, whichever is the sooner.

Effective Date:  31 January 1978

DCA/PA30/23  Fuel Selector Valve - Inspection


Requirement:  Check valve port leakage per Piper SL 851 Part `A'. Renew defective valves before further flight.

Compliance:  At intervals not exceeding 50 hours TIS.

Effective Date:  10 November 1978

DCA/PA30/24  Fuel System - Inspection


Requirement:  To prevent retention of water, contamination and deterioration of fuel system, accomplish the following:
               1. (a) Gain access to and dismantle fuel strainer assembly per Piper Maintenance Manual.
               (b) Inspect and, if contamination found, flush fuel tanks and system. Renew damaged parts as necessary and reassemble.
               2. On inside of hinged access door or adjacent position clearly visible to pilot during pre-flight check install placard which, in letters at least 1/8 inch high, reads: "BEFORE FIRST FLIGHT OF EACH DAY AND AFTER REFUELLING DRAIN FUEL SYSTEM PER FLIGHT MANUAL INSTRUCTIONS".
               3. Modify per Piper SL 589.
               (FAA AD 83-10-01 refers)

Compliance:  1. Inspection - Within the next 50 hours TIS and thereafter at intervals not exceeding 50 hours TIS.
               2. Placard - Within the next 50 hours TIS.
               3. Modification - Within the next 100 hours TIS, unless already accomplished.

Effective Date:  24 June 1983
DCA/PA30/25  Spar Cap - Inspection
Applicability: Model PA-30 S/N 30-2 through 30-2000
Requirement: To preclude possible loss of structural integrity, inspect per Piper SB 751. Rectify or replace defective parts before further flight
Compliance: Within the next 100 hours TIS
Effective Date: 15 July 1983

DCA/PA30/26A Parking Brake Operation - Placard
Requirement: To prevent aircraft controllability problems while involved in ground operation because of improper brake operation, accomplish the following:-
Install one of the following in a central location on the pilot's instrument panel in full view of the pilot;
(1) A Piper P/N 81090-02 placard; or
(2) A Piper P/N 683-107 placard.
Note: The above referenced placards both contain the following wording:

![WARNING](image)

(FAA AD 85-02-05R1 refers)

Compliance: Required within 100 hours time-in-service after 22 March 1985 or prior to the next flight after the effective date of this AD, whichever occurs later, unless already accomplished.
Effective Date: DCA/PA30/26 - 22 March 1985
DCA/PA25/26A - 19 December 1997

DCA/PA30/27C Main Landing Gear Sidebrace Stud – Inspection
Applicability: Models PA30 series aircraft, all S/N.
Note 1: This AD revised to remove note 3. There is no terminating action to the repetitive inspections mandated by this AD for PA-30 aircraft. The larger 5/8” sidebrace stud P/N 78717-02 and bushing cannot be installed in the existing sidebrace bracket assembly. And bracket assembly P/N 95643-06, 95643-07, 95643-08 or 95643-09 cannot be installed on PA-30 aircraft.
Requirement: To prevent main landing gear (MLG) collapse due to possible main gear sidebrace stud cracks which if not detected and corrected could result in loss of aircraft control during landing, accomplish the following:
Remove both the left and right main gear sidebrace studs from the aircraft per the instructions in the landing gear section of the aircraft MM. Inspect both the main gear sidebrace stud for cracks using Type I (fluorescent) liquid penetrant or magnetic particle inspection methods. Figure 1 of this AD depicts the area where the sidebrace stud is to be inspected.
For any main gear sidebrace stud not found cracked, before to further flight reinstall the stud per the instructions in the Landing Gear section of the applicable MM, and reinspect and replace (as necessary) per this AD.

For any main gear sidebrace stud found cracked, before to further flight replace the cracked stud with a serviceable part per the instructions in the Landing Gear section of the applicable MM, and reinspect and replace (as necessary) per this AD.

**Note 2:**
Models PA30 series aircraft were fitted with main gear sidebrace studs P/N 22512-00 at production.
(FAA AD 97-01-01R1 refers)

**Compliance:**
Within the next 100 hours TIS unless previously accomplished and thereafter at intervals not to exceed 1000 hours TIS.

**Effective Date:**
DCA/PA30/27A - 14 March 1997
DCA/PA30/27B - 29 September 2011
DCA/PA30/27C - 27 October 2011
DCA/PA30/28 Severe Icing Conditions – AFM Revision

Applicability: All model PA-30.

Requirement: To minimise the potential hazards associated with operating the aircraft in severe icing conditions (by providing more clearly defined procedures and limitations associated with such conditions), incorporate the following into the Aircraft Flight Manual (AFM):

1. Limitations Section of the Aircraft Flight Manual

"WARNING

Severe icing may result from environmental conditions outside of those for which the aircraft is certificated. Flight in freezing rain, freezing drizzle, or mixed icing conditions (supercooled liquid water and ice crystals) may result in ice build-up on protected surfaces exceeding the capability of the ice protection system, or may result in ice forming aft of the protected surfaces. This ice may not be shed using the ice protection systems, and may seriously degrade the performance and controllability of the aircraft.

• During flight, severe icing conditions that exceed those for which the aircraft is certificated shall be determined by the following visual cues. If one or more of these visual cues exists, immediately request priority handling from Air Traffic Control to facilitate a route or an altitude change to exit the icing conditions.

• Unusually extensive ice accumulation on the airframe and windshield in areas not normally observed to collect ice.

• Accumulation of ice on the upper surface of the wing aft of the protected area.

• Accumulation of ice on the engine nacelles and propeller spinners farther aft than normally observed.

• Since the autopilot, when installed and operating, may mask tactile cues that indicate adverse changes in handling characteristics, use of the autopilot is prohibited when any of the visual cues specified above exist, or when unusual lateral trim requirements or autopilot trim warnings are encountered while the aircraft is in icing conditions.

• All wing icing inspection lights must be operative prior to flight into known or forecast icing conditions at night. This supersedes any relief provided by the Master Minimum Equipment List (MMEL)."

2. Normal Procedures Section of the Aircraft Flight Manual

"THE FOLLOWING WEATHER CONDITIONS MAY BE CONDUCIVE TO SEVERE IN-FLIGHT ICING:

• Visible rain at temperatures below 0 degrees Celsius ambient air temperature.

• Droplets that splash or splatter on impact at temperatures below 0 degrees Celsius ambient air temperature.

PROCEDURES FOR EXITING THE SEVERE ICING ENVIRONMENT:

These procedures are applicable to all flight phases from takeoff to landing. Monitor the ambient air temperature. While severe icing may form at temperatures as cold as -18 degrees Celsius, increased vigilance is warranted at temperatures around freezing with visible moisture present. If the visual cues specified in the Limitations Section of the AFM for identifying severe icing conditions are observed, accomplish the following:
• Immediately request priority handling from Air Traffic Control to facilitate a route or an altitude change to exit the severe icing conditions in order to avoid extended exposure to flight conditions more severe than those for which the aircraft has been certificated.

• Avoid abrupt and excessive manoeuvring that may exacerbate control difficulties.

• Do not engage the autopilot.

• If the autopilot is engaged, hold the control wheel firmly and disengage the autopilot.

• If an unusual roll response or uncommanded roll control movement is observed, reduce the angle-of-attack.

• Do not extend flaps when holding in icing conditions. Operation with flaps extended can result in a reduced wing angle-of-attack, with the possibility of ice forming on the upper surface further aft on the wing than normal, possibly aft of the protected area.

• If the flaps are extended, do not retract them until the airframe is clear of ice.

• Report these weather conditions to Air Traffic Control.”

Note: This may be accomplished by inserting a copy of this AD in the AFM or by incorporating a manufacturer’s flight manual revision that contains the wording per this AD.

3. Flight Crew Notification
Operators must ensure that flight crew are aware of the flight manual revision. (FAA AD 98-04-27 refers)

Compliance: By 10 May 1998
Effective Date: 10 April 1998
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If additional NZ ADs need to be issued when an unsafe condition is found to exist in an aircraft or aeronautical product in NZ, they will be added to the list below.

2015-24-05 Fuel System – Inspection
Effective Date: 12 January 2016

2017-15-05 Heater Exhaust Extension – Inspection
Applicability: Piper PA-30 aircraft, all S/N.
Effective Date: 28 August 2017