

## COMPONENT TIME LIMITS

### 1. Component Time Limit

- A. All components not recorded here must be examined as given in other sections of this chapter and repaired, overhauled or replaced as required. Items shown here must be overhauled or replaced during the regular maintenance periods that are to be done nearest to the specified limit. Also, those items that are underlined are recorded in Chapter 4, Airworthiness Limitations.
- B. The replacement life for each component recorded in this section applies to the part throughout its life on the original installation and on later installations. The life (number of hours or number of landings) must be recorded individually for these components and must stay with the component during removal. For example, if a component is removed for overhaul, it must be tagged with the life (number of hours or number of landings) to the date of removal and this tag must remain with the component throughout the overhaul process. (Overhaul of a component does not zero time the life of the component.) When received from overhaul and installed on an airplane, the life of the component must be recorded for continued accumulation toward the life-limit.

### 2. Schedule

- A. Equipment and Furnishings (Chapter 25)
  - (1) Emergency Locator Transmitter (ELT) Battery Pack - Replace at replacement date. Refer to Task 25-60-00-960.  
**NOTE:** Replace battery if transmitter has been in use for more than one cumulative hour or when 50 percent of the useful life of the battery has expired.
- B. Flight Controls (Chapter 27)
  - (1) Flap Bell Crank (Part Number 2622083-18) - Replace at every 2250 landings.
  - (2) Flap Bell Crank (Part Number DDA00028-4) - Replace at every 2250 landings.
  - (3) Flap Bell Crank (Part Numbers 2622281-2, -12) - Replace at every 7000 landings.
  - (4) Flap Bell Crank (Part Number 2692001-2) - Replace at every 7000 landings.  
**NOTE:** Total landings includes the accumulated landings of 2622281-2 prior to modification by SK208-123 to the 2692001-2 configuration.
  - (5) Flap Bell Crank (Part Numbers 2622311-7, -16) - Replace at every 40,000 landings.
  - (6) Flap Bell Crank (Part Number 2622311-7) attaching parts: Bearings (Part Number MS27641-5 or S3952-5) and Bolt (Part Number AN5-77) - Replace at every 10,000 landings.
  - (7) Flap Bell Crank (Part Number 2622311-16) attaching parts: Bearings (Part Number KP5A-H or S3952-5) and Bolt (Part Number AN5-77) - Replace at every 10,000 landings.
  - (8) Elevator Forward Pushrod Part Numbers 2613440-1, 2613414-1, and 2660034-1 - Replace at 9500 landings.
  - (9) Elevator Forward Pushrod Part Numbers 2613440-3, 2613440-5, DDA05946-1 - Replace at 40,000 landings.
  - (10) Elevator Aft Pushrod Part Numbers 2634009-1, 2634027-1, and 2634027-3 - Replace at 40,000 landings.
- C. Ice and Rain Protection (Chapter 30)
  - (1) TKS Metering Pumps Part Number 9514A-1 - Replace or complete a restoration of the pumps every 5000 flight hours.
- D. Indicating/Recording Systems (Chapter 31)
  - (1) Flight Data Recorder Underwater Locator Beacon Battery Discard. Replace every 6 years. Refer to Task 31-31-00-960.
- E. Landing Gear (Chapter 32)
  - (1) Main Landing Gear
    - NOTE:** The attaching hardware related to this installation is to be replaced whenever the associated components are replaced.
    - NOTE:** The attaching hardware can be used again if a rental component is to be installed for no more than 100 landings. The attaching hardware can also be used again if the original gear is to be installed again. If a replacement gear is installed, all of the attachment hardware must be replaced.
    - (a) Main Landing Gear Center Spring (Part Numbers 2641014-1, -2, -3, -4, -5, -6 -7, -8, -9, -12, -13, 2694007-9.

2694008-9) - Replace at every 31,500 landings.

- (b) Main Landing Gear Trunnion Assembly (Part Numbers 2641012-1, -2, -8, -9, -13 -14, -15, -16) - Replace at every 31,500 landings.
  - (c) Main Landing Gear Spring (Part Numbers 2641013-1, -2, -3, -4, -5, -6, 7, -8, -9, -10, -17, -19, -200, -201, DDA06280-1, DDA06280-2, 2694007-8, 2694008-8) - Replace at every 31,500 landings.
  - (d) Main Landing Gear Attach Pin (Part Numbers 2641008-1, -2, -200) - Replace at every 31,500 landings.
  - (e) Main Landing Gear Axles (Part Numbers 2641011-1, -3, -4) - Replace at every 10,000 landings.
  - (f) Main Landing Gear Axles (Part Numbers 2641011-5) - Replace at every 31,500 landings.
  - (g) Main Landing Gear Axle Fittings (Part Numbers 2641010-1, -3, -6, -7) - Replace at every 31,500 landings.
- (2) Nose Landing Gear

**NOTE:** The attaching hardware related to this installation is to be replaced whenever the associated components are replaced.

**NOTE:** The attaching hardware can be used again if a rental component is to be installed for no more than 100 landings. The attaching hardware can also be used again if the original gear is to be installed again. If a replacement gear is installed, all of the attachment hardware must be replaced.

- (a) Nose Gear Drag Link Spring (Part Numbers 2643062-1, -2, -3, -4, -200, DDA06381-1, DDA06382-1) - Replace at every 15,000 landings.

**NOTE:** For nose gear drag link springs repaired per CAB96-24 or per Chapter 32, Nose Landing Gear - Cleaning/Painting with damage repaired between 0.050 inch and 0.062 inch (1.270 mm and 1.575 mm), the life limit is an additional 12,000 landings after repair, not to exceed 15,000 landings.

**NOTE:** For nose gear drag link springs repaired per CAB96-24 or per Chapter 32, Nose Landing Gear - Cleaning/Painting with damage repaired between 0.063 inch and 0.075 inch (1.600 mm and 1.905 mm), the life limit is an additional 10,000 landings after repair, not to exceed 15,000 landings.

- (b) Nose Gear Assembly (Part Numbers 2643045, 2643100 and 2643095 Series Part Numbers) - Replace at every 40,000 landings.

**NOTE:** For an illustration of the nose gear assembly to be replaced, refer to Chapter 32, section 32-20-00, Nose Landing Gear - Maintenance Practices.

- (c) Support Assembly, Nose Gear Spring (Part Numbers 2643030, 2643055, 2643099, and 2643103 Series Part Numbers) - Replace at every 40,000 landings.

**NOTE:** For an illustration of the nose gear spring support assembly to be replaced, refer to Chapter 32, section 32-20-00, Nose Landing Gear - Maintenance Practices.

- (d) Fork Assembly, Nose Gear Spring (Part Numbers 2643031-1, -7) - Replace at every 40,000 landings.

**NOTE:** For an illustration of the nose gear spring fork assembly to be replaced, refer to Chapter 32, section 32-20-00, Nose Landing Gear - Maintenance Practices.

#### F. Navigation (Chapter 34)

- (1) Pitot and static hoses - Replace after 10 years in service.

#### G. Oxygen (Chapter 35)

- (1) The airplane may be equipped with a two-port oxygen system incorporating a 50.67 cubic-foot-capacity oxygen cylinder (Part Numbers C166001-1101 and C166001-1201) or a ten port oxygen system incorporating a 116.95 cubic-foot-capacity oxygen cylinder (Part Numbers C166001-1102 and C166001-1103). Both cylinders have a life limit of 15 years. Refer to Task 35-01-00-960.
- (2) Oxygen Cylinder hydrostatic test intervals are determined by DOT-E 8162 or DOT-SP 8162. Refer to Table 1, Hydrostatic Test Intervals.

**Table 1. Hydrostatic Test Intervals**

DOT Cylinder Marking	Last Retest	Next Retest	Subsequent Retest Interval	Refer to Task
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E 8162	Before July 1, 2006	3 years after last hydrostatic test	5 years	Task 35-01-00-780
E 8162	On or After July 1, 2006	5 years after last hydrostatic test	5 years	Task 35-01-00-780
SP 8162	On or After July 1, 2006	5 years after last hydrostatic test	5 years	Task 35-01-00-780
3AA	N/A	N/A	5 years	Task 35-30-00-780

- (3) Oxygen Regulator (Part Number 172400) to be disassembled, repaired, inspected, cleaned and reassembled by an approved facility concurrently with the oxygen bottle hydrostatic test.
- (4) Scott 359 Series Oxygen Mask All Components Including Regulator - Overhaul/Replacement 6 years. Refer to Task 35-15-00-960.

#### H. Vacuum (Chapter 37)

- (1) Vacuum hoses - Replace after 10 years in service.
- (2) Vacuum System Central Air Filter Discard (C294502-0201 ) - Replace every 12 calendar months or 400 hours, whichever comes first. Refer to Task 37-10-00-960 for procedure.
- (3) Vacuum Relief Valve Filter Discard (C482001-0202) - Replace every 12 calendar months or 400 hours, whichever comes first. Refer to Task 37-10-00-961 for procedure.

#### I. Propeller - Hartzell (Chapter 61)

- (1) Propeller - Overhaul, Refer to Hartzell Propeller Service Letter HC-SL-61-61Y, Revision 3 or later.
- (2) Governor (Woodward) - Overhaul, Refer to Pratt & Whitney Service Bulletin number 1703.
- (3) Overspeed Governor (Woodward) - Overhaul, Refer to Service Bulletin 33580.

Web: <http://www.woodward.com/StandardServiceBulletins.aspx>

#### J. Propeller McCauley (Chapter 61)

- (1) Propeller - Overhaul, Refer to the latest revision of the McCauley MPC 26 Owner/Operator Information Manual.
- (2) Governor (Woodward) - Overhaul, Refer to Pratt & Whitney Service Bulletin number 1703.
- (3) Overspeed Governor (Woodward) - Overhaul, Refer to Service Bulletin 33580.

Web: <http://www.woodward.com/StandardServiceBulletins.aspx>

#### K. Power plant (Chapter 71)

- (1) Refer to the Pratt & Whitney Maintenance Manual listed in the List of Publications in the front of this publication as well as Pratt & Whitney Service Bulletin No. 1703, Rev. No. 7 or later for model PT6A-114/114A engines or Service Bulletin 1903 Rev. No. 2 or later for model PT6A-140 engines.

**NOTE:** Engine components, such as standby alternator, etc., should be inspected for condition at time of engine overhaul, as it may be cost effective to overhaul or replace marginal components at that time. A determination is to be made during engine overhaul such that if components have less hours in service than the engine, or have not accumulated sufficient hours for economic reasons, these components may not require overhaul or replacement concurrent with engine overhaul. It is recommended that the overhaul or replacement interval for these components not exceed the engine overhaul interval.

**NOTE:** Inspect the engine compartment for structural damage when engine is removed for overhaul, and make the necessary repairs.

**NOTE:** Inspect the engine exhaust as it may be cost effective to replace marginal components at engine overhaul.

**NOTE:** Inspect electrical harnesses for damage which would be cost effective to replace at engine overhaul.

- (2) Fuel Hose: From firewall fuel filter to engine fuel heater. From fuel control unit motive flow return to firewall fitting -

Replace rubber hoses, base number S2495 (Purchased through Cessna), every 5 years or 3600 hours, whichever occurs first. Replace Teflon hoses, base number S2808 (Purchased through Cessna), every 10 years from date of installation.

- (3) Oil Hose: Oil cooler supply from engine external scavenge pump to oil cooler inlet. From oil cooler return outlet to engine oil tank. Torque indicating pressure hose. Engine oil pressure indicating hose from engine to firewall. Torque indicating vent hose - Replace Teflon engine compartment flexible fluid-carrying hoses, base number S2808/AE3663 (Purchased through Cessna), every 10 years from date of installation.
- (4) Engine-Oil Breather Vent-Hose (part number S51-xx). Refer to Engine Oil Breather Vent Line Assembly - Maintenance Practices. Remove and replace every 10 years or at engine TBO, whichever occurs first.

**NOTE:** For the Engine-Oil Breather Vent-Hose part number, the "-xx" is replaced with the hose length. There are two lengths of S51 hose installed on the engine oil breather vent line.

#### L. Engine Oil (Chapter 79)

- (1) C100490-1 Oil Cooler Check Valve (Check Valve Assembly Repair) Restoration (Airplanes 208B-2197, and 208B5000 and On) - Every 1,800 hours.

**NOTE:** Refer to CAL-79-01 Oil Cooler System Check Valve Assembly Repair Kit Installation for an alternative to replacement of the C100490-1 Check Valve Assembly.

#### M. Starter-Generator (Chapter 80)

- (1) Starter-Generator (Lear Siegler/Lucas Aerospace)
  - (a) Except part number 23081-023A, - Overhaul or replace every 1000 hours. Refer to Task 80-10-00-960.
  - (b) Part number 23081-023A - Overhaul or replace every 1200 hours. Refer to Task 80-10-00-960.
- (2) Starter-Generator (Aircraft Parts Corp. - APC "XL" or Skurka Aerospace, Inc.)
  - (a) Starter-generator part number 200SGL119Q - Overhaul or replace every 1600 hours. Refer to Task 80-10-00-960.
  - (b) Starter-generator part number 200SGL119Q-2 - Overhaul or replace every 2000 hours (Refer to Skurka Aerospace Inc. Service Letter #231 (Rev. A or later) for upgrade information from 200SGL119Q-2 to 200SGL153Q). Refer to Task 80-10-00-960.
  - (c) Starter-generator part number 200SGL153Q - Overhaul or replace every 2000 hours (Refer to Skurka Aerospace Inc. Service Letter #231 (Rev. A or later) for upgrade information from 200SGL119Q-2 to 200SGL153Q). Refer to Task 80-10-00-960.
  - (d) Starter-generator part number 300SGL145Q - Overhaul or replace every 1000 hours. Refer to Task 80-10-00-960.