

CESSNA PROGRESSIVE CARE

MODEL T303

OPERATION NO. 1



DEALER INFORMATION	CUSTOMER AND AIRCRAFT INFORMATION
ZONE _____ SERVICING _____ DEALER NAME _____ SERVICING _____ DEALER CODE _____ DATE _____	NAME _____ ADDRESS _____ CITY & STATE _____ A/C MODEL _____ AND SERIAL NO. _____ REG. NO. _____ ENG. SERIAL NO. _____ LEFT HAND _____ R.H. _____ ZONE CODE _____ SELLING _____ WARRANTY/ _____ DEALER CODE _____ START DATE _____

5-23. NOSE SECTION.

A. Placards (Chapter 11).

- (1) Placards and Decals - Inspect for security, presence and legibility.

B. Environmental Systems (Chapter 21).

- (1) Heater - Check condition and operation.
- (2) Nose Ram Air - Check clamps and hose.
- (3) Nose Ram Air Valve - Check security and proper operation.
- (4) Distribution Outlet Vents - Inspect outlet vents for open and closed position. Check windshield defroster outlets.
- (5) Heater/Vent Fan - Check operation.

C. Communications (Chapter 23).

- (1) Static Wicks - Inspect for security, corrosion and condition.

D. Hydraulic Power (Chapter 29).

- (1) Hydraulic Power Pack - Inspect for leaks, security of installation, cleanliness and proper service.
- (2) Relief Valves - Check function.
- (3) Pressure Switch - Check function.
- (4) Hydraulic Power Pack Filter Screen - Inspect.

E. Landing Gear (Chapter 32).

- * (1) Nose Gear Assembly - Check for security of installation, cracks and evidence of damage.

MECH	INSP	REMARKS

*50-Hour Requirement, Refer to Paragraph 5-22, B.

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	MECH	INSP	REMARKS
* (2) Nose Gear Shock Strut - Check for evidence of leakage, proper extension; check strut barrel for corrosion, pitting and cleanliness. (3) Nose Gear Shock Strut - Service. * (4) Nose Gear Torque Links - Inspect for wear and condition. * (5) Nose Gear Torque Links - Lubricate. * (6) Nose Gear Trunnion and Pivot Bearings - Lubricate. (7) Nose Gear Fork - Inspect for cracks, general condition and security of attachment. * (8) Shimmy Dampener - Check for security of installation, attach points for wear and condition, lubricate. (9) Shimmy Dampener - Service. (10) Nose Gear Door Actuator and Door Mechanism - Inspect for condition. * (11) Nose Gear Wheel - Inspect for nicks, cracks, finish abrasions and corrosion. * (12) Nose Gear Tire - Check for wear, cuts and proper inflation. (13) Nose Gear Wheel Bearings - Inspect for corrosion, evidence of damage, clean and repack. (14) Nose Gear Steering System - Check turnbuckle tension and gimbal bolts for condition and torque. (15) Nose Gear Steering Stop Block - Check security. F. Ice and Rain Protection (Chapter 30). (1) Pitot Heater - Check operation. G. Navigation and Pitot/Static (Chapter 34). (1) Pitot Tube and Lines - Inspect for security of installation, cleanliness and evidence of damage. Check sumps for cracks, leaks and presence of water, drain sumps. H. Lights (Chapter 33). (1) Nose Baggage Compartment - Inspect light and switch for security of installation and operation. I. Doors (Chapter 52). (1) Nose Baggage Door - Check condition, operation and security of hinges, latches and assist cylinder.			

*50-Hour Requirement. Refer to Paragraph 5-22, B.

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	MECH	INSP	REMARKS
5-24. FUSELAGE.			
A. Fire Protection (Chapter 26).			
(1) Fire Warning Lights - Check operation.			
(2) Portable Hand Fire Extinguisher - Inspect for proper operating pressure, security of installation and evidence of damage.			
B. Flight Controls (Chapter 27).			
(1) Aileron Trim Tab Control and Indicator - Inspect for security and evidence of damage. Operate control and check freedom of movement. Inspect turnbuckle safetying.			
(2) Rudder Trim Tab Control and Indicator - Inspect for security and evidence of damage. Operate control and check rudder trim tab for freedom of movement.			
(3) Elevator Trim Tab Control and Indicator - Inspect for security and evidence of damage. Operate both manually and electrically.			
C. Oxygen (Chapter 35).			
(1) Oxygen System - Check installation and pressure.			
(2) Oxygen Regulator - Check pressure and flow rate.			
(3) Oxygen Masks and Hoses - Check operation and clean.			
(4) Oxygen Cylinder - Inspect condition, check hydrostatic test date.			
D. Equipment/Furnishings (Chapter 25).			
(1) All Seats - Inspect seat rails for cracks, refer to Chapter for limitations.			
5-25. WINGS.			
A. Wings (Chapter 57).			
* (1) Wings - Check for loose rivets, cracks, loose mounting fasteners and security.			
(2) Wing Wheel Well - Check fume proofing.			
(3) Wing Access Plates - Inspect for security of installation and evidence of damage.			
(4) Wing Spar Fittings - Check bolts for working and security.			

*50-Hour Requirement, Refer to Paragraph 5-22, B.

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	MECH	INSP	REMARKS
B. Landing Gear (Chapter 32).			
* (1) Main Gear System - Check actuating time and free fall (both flight and ground check).			
* (2) Main Gear Assembly - Check security of installation and attach points for wear and condition.			
(3) Perform landing gear rigging inspection.			
* (4) Main Gear Shock Struts - Check for evidence of leakage and proper extension; check strut barrel for corrosion, pitting and cleanliness.			
(5) Main Gear Shock Struts - Service.			
* (6) Main Gear Wheel - Inspect for nicks, cracks, finish, abrasion and corrosion.			
(7) Main Gear Wheel Bearings - Inspect for corrosion, evidence of damage, clean and repack.			
(8) Brake System Plumbing - Inspect for leaks, condition and security; check for proper routing and support.			
(9) Brake Assemblies - Check lining wear and disc warpage.			
* (10) Main Gear Tires - Check for wear, cuts and proper inflation.			
* (11) Main Gear Retraction Upper Arms - Lubricate.			
C. Fuel (Chapter 28).			
(1) Fuel Lines - Inspect for deterioration, chafing, fuel leaks and security of installation.			
(2) Fuel Inlet Float Valves - Check with tester.			
(3) Fuel Pressure Switch and Auxiliary Pump Micro Switch - Check operation.			
D. Electrical Power (Chapter 24).			
* (1) Battery Installation - Inspect overboard vent and vent line for damage and obstruction.			
* (2) Battery Cables - Inspect for corrosion and deterioration.			
* (3) Battery Electrolyte - Inspect for spewage and level in each cell.			
* (4) Fuseholder - Ensure all fuses are functional and spares are available.			

*50-Hour Requirement, Refer to Paragraph 5-22. B.

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	MECH	INSP	REMARKS
5-26. NACELLES.			
A. Fire Protection (Chapter 26).			
(1) Detection Control Unit - Inspect for security and evidence of damage.			
5-27. TAILCONE.			
A. Flight Controls (Chapter 27).			
(1) Rudder - Inspect the rudder skins for cracks and loose rivets, rudder hinges, hinge bolts, hinge bearings and hinge attach fittings for evidence of damage or wear, failed fasteners and security. Check the rudder hinge bolts for proper safety of nuts with cotter pins.			
(2) Rudder Bellcrank - Inspect bellcrank stop bolts for proper safetying, corrosion, evidence of damage and safety. Inspect bellcrank cables for proper safetying.			
(3) Rudder Cables - Check condition, routing, tension, turnbuckle safetying; cables in pulleys and not rubbing on structure.			
(4) Rudder Trim Tab - Inspect skins for cracks and loose rivets. Inspect hinge for security and evidence of damage, hinge pin for proper installation and cotter pin safetying. Check trim tab travel. Inspect pushrods for evidence of damage and security.			
(5) Rudder Trim Tab Actuator - Inspect actuator for security and evidence of damage, service.			
(6) Rudder Trim Cables - Inspect condition, routing, tension, turnbuckle safetying; cables in pulleys and not rubbing on structure.			
(7) Rudder Gust Lock - Check security, wear and travel.			
(8) Yaw Dampener Actuator and Cables - Inspect actuator for security, mount for cracks and structure for evidence of damage. Inspect cables for fraying, chafing, routing, cleanliness, cable tension and turnbuckle safetying. Inspect chains for proper alignment on actuator sprockets.			
(9) Elevator - Inspect the elevator skins for cracks and loose rivets. Check elevator hinges for condition, cracks and security. Inspect hinge bolts, hinge bearings, torque tube, horn and attach fittings for evidence of damage or wear. Check travel and friction.			

*50-Hour Requirement. Refer to Paragraph 5-22, B.

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	MECH	INSP	REMARKS
(10) Elevator Bellcrank - Inspect bellcrank, pushrods, stop bolts, jam nuts and brackets for corrosion evidence of damage, failed fasteners and proper safetying.			
(11) Elevator and Elevator Trim Tab Cables - Check condition, routing, tension, turnbuckle safetying; cables in pulleys and not rubbing on structure.			
(12) Elevator Trim Tab - Inspect trim tab skins for loose rivets. Check trim tab hinge for security and evidence of damage. Check tab free play and travel. Check hinge pin for security.			
(13) Elevator Trim Tab Actuator - Inspect actuator attach bolts. Inspect pushrod bolts for proper safety of nuts with cotter pins.			
(14) Elevator Trim Tab Actuator - Service.			
B. Stabilizers (Chapter 55).			
(1) Horizontal Stabilizer - Inspect skin for cracks, loose or failed fasteners and evidence of structural damage. Inspect hinge bracketry for cracks and loose and/or working fasteners.			
(2) Vertical Stabilizer - Inspect skin for cracks loose or failed fasteners and evidence of structural damage. Inspect hinge bracketry for cracks and loose and/or working fasteners.			
5-28. POWERPLANT.			
A. Fire Protection (Chapter 26).			
(1) Detection Sensor - Inspect for security and evidence of damage.			
B. Propellers (Chapter 61).			
* (1) Propeller Spinner - Clean, check for cracks, fractures and security of installation.			
(2) Blades - Check for nicks and cracks.			
(3) Propeller Hub - Check general condition.			
(4) Propeller Governor - Check operation, oil leaks, condition and security.			
(5) Spinner Bulkhead - Check for cracks and security.			
(6) Propeller - Check for oil leaks.			
(7) Propeller Mounting - Check for security and blade track.			

*50-Hour Requirement. Refer to Paragraph 5-22, B.

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	MECH	INSP	REMARKS
C. Exhaust (Chapter 78).			
* (1) Exhaust System - Check for security, cracks and slip joints.			
D. Oil (Chapter 79).			
(1) Engine Oil - Change.			
(2) Engine Oil Filter - Replace filter and inspect adapter.			
* (3) Engine Oil Breather Separator - Check.			
(4) Engine Oil Pressure System - Check lines for leaks, bends, cracks and security.			
E. Starting (Chapter 80).			
(1) Starter, Starter Solenoid and Electrical Connections - Check.			
F. Powerplant (Chapter 71).			
(1) Engine Compartment - Visually check for oil and fuel leaks and general condition.			
(2) Engine Mounts and Ground Straps - Check condition, security and alignment.			
(3) Engine Wire Bundle - Check condition and security.			
* (4) Engine Compartment Hoses; Fuel (Check fuel lines under pressure), Oil and Vacuum - Check for deterioration, leaks, discoloration, bleaching and stiffness.			
(5) Cowl Flap Hinge - Secure.			
(6) Cowl Flap Control - Check freedom of movement.			
* (7) Induction Air Filter - Service.			
(8) Induction System - Check condition and security of ducting.			
(9) Engine Baffles and Seals - Check condition and security.			
G. Engine/Reciprocating (Chapter 72).			
(1) Engine - Clean, check for security of accessories.			
(2) Cylinder Compression - Refer to Engine Manufacturer's Service Bulletin M73-19.			
(3) Engine Cylinders, Rocker Box Covers and Pushrod Housings - Check for fin damage, cracks, oil leaks, security of attachment and general condition.			
(4) Crankcase, Oil Sump and Accessory Section - Inspect for cracks and evidence of oil leaks, check bolts and nuts for looseness retorque as necessary.			

*50-Hour Requirement, Refer to Paragraph 5-22, B.

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	MECH	INSP	REMARKS
H. Ignition (Chapter 74).			
(1) Spark Plugs - Clean and rotate (top right to bottom left, top left to bottom right).			
(2) Ignition Cables - Check condition and security.			
(3) Magnetos - Check magneto to engine timing and security.			
I. Fuel (Chapter 28).			
(1) Engine Driven Fuel Pumps - Check for leaks, operation and security.			
J. Turbines (Chapter 81).			
(1) Refer to Manufacturer's Overhaul Manual for all inspection procedures.			
K. Electrical Power (Chapter 24).			
(1) Alternators - Check belt tension, wires and supports.			
L. Vacuum (Chapter 37).			
(1) Vacuum System Central Air Filter - Inspect for cleanliness.			
(2) Suction Gage - Inspect for security and operation.			

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5-29. SPECIAL INSPECTION ITEMS: Check Maintenance Manual Chapter 5, for special inspection items due. Accomplish all applicable items.

5-30. POST INSPECTION.

- A. Lubrication and Servicing - Ensure all required items have been lubricated and/or serviced per Maintenance Manual lubrication and/or servicing charts (Chapter 12).
- B. Correct all discrepancies, replace cowling, access covers, doors, fairings and other items removed for this inspection.
- C. Operational Check:
 - (1) Avionics, flight and engine instruments - Check operation.
- D. Engine Compartment - Check for oil and/or fuel leaks.
- E. Aircraft File - Check for required materials.
- F. Check compliance with applicable Service Letters and/or Airworthiness Directives.

OPERATION NO. 1 COMPLETED

AIRCRAFT MODEL/SERIAL _____ REGISTRATION NO. _____

AIRCRAFT HOURS _____ DATE _____

I certify that this Operation was performed on the above aircraft and that this aircraft is approved for return to service.

SUPERVISOR MECHANIC _____ AIRCRAFT INSPECTOR _____

CERTIFICATE NO. _____ CERTIFICATE NO. _____

COMPANY NAME _____

ADDRESS _____ CITY _____ STATE _____

CESSNA PROGRESSIVE CARE

MODEL T303

OPERATION NO. 2



DEALER INFORMATION		CUSTOMER AND AIRCRAFT INFORMATION		
ZONE _____ SERVICING _____ DEALER NAME _____ SERVICING _____ DEALER CODE _____ DATE _____		NAME _____ ADDRESS _____ CITY & STATE _____ A/C MODEL _____ AND SERIAL NO _____ ENG. SERIAL NO _____ LEFT HAND _____ REG NO _____ ENG. SERIAL NO _____ R.H. _____ ZONE CODE _____ SELLING _____ DEALER CODE _____ WARRANTY _____ START DATE _____		
		MECH	INSP	REMARKS
5-31. WINGS. A. Electrical Power (Chapter 24). * (1) Battery Installation - Inspect overboard vent and vent line for damage and obstruction. * (2) Battery Cables - Inspect for corrosion and deterioration. * (3) Battery Electrolyte - Inspect for spewage and level in each cell. * (4) Fuseholders - Ensure all fuses are functional and spares are available. (5) Wings and Fuselage - Check wiring, routing, security and terminals. (6) External Power - Inspect receptacle for security of installation and damage. Inspect contactors for damage and operation. B. Flight Controls (Chapter 27). (1) Ailerons - Inspect skins and hinges for cracks and loose rivets; bellcrank stop bolt for looseness and/or jam nut for being tight, linkage, pulleys and bolts for condition, operation, security, travel and friction. (2) Aileron Trim Tab - Inspect skin and hinge for cracks and loose rivets; linkage for cracks and wear, bolts for safety and tab for free play and travel. (3) Aileron Trim Tab Actuator - Check for condition and security. (4) Aileron and Aileron Trim Cables - Check condition, routing, tension, turnbuckle safetying; cables in pulleys and not rubbing structure. (5) Flaps - Check linkage, bellcranks, pulleys, cables, motor and actuator for condition, tension and security. (6) Flaps - Check travel, extension and retraction.				

*50-Hour Requirement, Refer to Paragraph 5-22, B.

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	MECH	INSP	REMARKS
C. Fuel (Chapter 28)			
(1) Fuel Strainer - Clean.			
(2) Fuel Selector Valve - Check for operation and detents.			
(3) Fuel System - Inspect plumbing and component mounting for condition and security.			
(4) Fuel Bays - Inspect for leaks, cracks and dents.			
(5) Auxiliary Fuel Pumps - Inspect for leaks, operation; vent and overboard drain for obstruction.			
(6) Fuel Bay Filler - Inspect for damage, leakage stains and broken components. Check lock position of the filler cap.			
(7) Drain Valves - Check operation.			
(8) Check Valves - Check operation.			
D. Ice and Rain Protection (Chapter 30).			
(1) Surface Deice System - Check for leaks, condition and operation of controls; lines and clamps for security.			
(2) Deice Boots - Check for abrasions, cuts, nicks and security of mounting.			
(3) Deice Filter - Clean.			
(4) Propeller Deice Slip Rings, Brushes and Boots - Check for condition operation and security of attachment.			
E. Landing Gear (Chapter 32).			
* (1) Main Gear System - Check actuating time and free fall (flight check).			
* (2) Main Gear Assembly - Check security of installation and attach points for wear and condition.			
* (3) Main Gear Shock Struts - Check for evidence of leakage and proper extension; check strut barrel for corrosion, pitting and cleanliness.			
* (4) Main Gear Wheel - Inspect for nicks, cracks, finish, abrasions and corrosion.			
* (5) Main Gear Tires - Check for wear, cuts and proper inflation.			
* (6) Main Gear Retraction Upper Arm - Lubricate.			

*50-Hour Requirement, Refer to Paragraph 5-22, B.

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	MECH	INSP	REMARKS
F. Lights (Chapter 33).			
(1) Deice Light - Inspect for security of installation, evidence of damage and operation.			
(2) Navigation Lights - Inspect wing tip light assemblies for security of installation, evidence of damage and operation.			
(3) Landing and Taxi Lights - Inspect for security of installation, evidence of damage and operation.			
G. Navigation and Pitot/Static (Chapter 34).			
(1) Emergency Locator Transmitter - Inspect for security of installation, position of the function switch, battery replacement date and condition of electrical components.			
(2) Emergency Locator Transmitter Antenna - Inspect for security of installation and evidence of damage.			
H. Doors (Chapter 52).			
(1) Main Gear Doors - Inspect hinge for corrosion, adjustment and evidence of damage.			
(2) Nacelle Baggage Door - Check condition, operation and security of hinges, latches and seals.			
I. Nacelles (Chapter 54).			
(1) Nacelle Firewall Structure - Inspect for condition, security and proper sealing.			
(2) Nacelle Structure - Inspect for cracks, dents and condition.			
J. Wings (Chapter 57).			
* (1) Wings - Check for loose rivets, cracks, loose mounting fasteners and security.			
(2) Wing Access Plates - Inspect for security of installation and evidence of damage.			
(3) Flaps - Inspect skin for cracks, loose or failed fasteners and evidence of damage.			

*50-Hour Requirement, Refer to Paragraph 5-22, B.

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	MECH	INSP	REMARKS
K. Propellers (Chapter 61).			
* (1) Propeller Spinner - Clean, inspect for cracks, fractures and security of installation.			
L. Powerplant (Chapter 71).			
(1) Engine Compartment Hoses; Fuel (check fuel lines under pressure), Oil and Vacuum - Check for deterioration, leaks, discoloration, bleaching and stiffness.			
* (2) Induction Air Filter - Service.			
M. Exhaust (Chapter 78).			
(1) Engine Exhaust System - Check for security, cracks and slip joints.			
N. Engine Fuel System (Chapter 73).			
(1) Fuel Injection System And Manifold - Inspect for leaking, and manifold drain valves for proper operation.			
(2) Fuel Discharge Nozzles - Inspect orifices and clean.			
(3) Fuel System Plumbing - Check lines for deterioration, chafing, fuel leaks and security.			
(4) Fuel Flow Indicators - Operational Test.			
5-32. NOSE SECTION.			
A. Landing Gear (Chapter 32).			
* (1) Nose Gear Assembly - Check for security of installation, cracks and evidence of damage.			
* (2) Nose Gear Shock Strut - Check for evidence of leakage, proper extension; check strut barrel for corrosion, pitting and cleanliness.			
* (3) Nose Gear Torque Links - Inspect for wear and condition.			
* (4) Nose Gear Torque Links - Lubricate.			
(5) Nose Gear Spherical Rod Ends - Lubricate.			
* (6) Nose Gear Shimmy Dampener - Check for security of installation; attach points for wear and condition, lubricate.			
* (7) Nose Wheel and Tire - Check wear, pressure and condition.			
* (8) Nose Gear Trunnion and Pivot Bearings - Lubricate.			

*50-Hour Requirement, Refer to Paragraph 5-22, B.

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	MECH	INSP	REMARKS
5-33. POWERPLANT. A. Oil (Chapter 79). * (1) Engine Oil Breather Separator - Check. B. Engine Controls (Chapter 76). (1) Engine Controls - check travel and security of installation, routing and evidence of damage. C. Engine Indicating (Chapter 77). (1) Manifold Pressure Gauge - Inspect for security of installation and operation. (2) Tachometer - Inspect for security of installation and operation. (3) EGT Gauge - Inspect for security of installation and operation. (4) Oil Pressure Gauges - Inspect for security of installation and operation. (5) Oil Temperature Gauges - Inspect for security of installation and operation. (6) Cylinder Head Temperature Gauges - Inspect for security of installation and operation.			
5-34. FUSELAGE. A. Equipment/Furnishings (Chapter 25). * (1) All Seats - Inspect seat rails for cracks, refer to Chapter for limitations.			

*50-Hour Requirement, Refer to Paragraph 5-22, B.

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5-35. SPECIAL INSPECTION ITEMS. Check Maintenance Manual Chapter 5 for special inspection items due. Accomplish all applicable items.

5-36. POST INSPECTION.

- A. Lubrication and Servicing - Ensure all required items have been lubricated and/or serviced per Maintenance Manual lubrication and/or servicing charts (Chapter 12).
- B. Correct all discrepancies, replace cowlings, access covers, doors, fairings and other items removed for this inspection.
- C. Operational Check:
 - (1) Avionics, flight and engine instruments - Check operation.
- D. Engine Compartment - Check for oil and/or fuel leaks.
- E. Aircraft File - Check for required materials.
- F. Check compliance with applicable Service Letters and/or Airworthiness Directives.

OPERATION NO. 2 COMPLETED

AIRCRAFT MODEL/SERIAL _____ REGISTRATION NO. _____

AIRCRAFT HOURS _____ DATE _____

I certify that this Operation was performed on the above aircraft and that this aircraft is approved for return to service.

SUPERVISOR MECHANIC _____ AIRCRAFT INSPECTOR _____

CERTIFICATE NO. _____ CERTIFICATE NO. _____

COMPANY NAME _____

ADDRESS _____ CITY _____ STATE _____

CESSNA PROGRESSIVE CARE

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OPERATION NO. 3



DEALER INFORMATION	CUSTOMER AND AIRCRAFT INFORMATION
ZONE _____ SERVICING _____ DEALER NAME _____ SERVICING _____ DEALER CODE _____ DATE _____	NAME _____ ADDRESS _____ CITY & STATE _____ A/C MODEL _____ AND SERIAL NO _____ REG NO _____ ENG. SERIAL NO _____ ENG SERIAL NO _____ LEFT HAND _____ R.H. _____ ZONE CODE _____ SELLING _____ WARRANTY _____ DEALER CODE _____ START DATE _____

5-37. TAILCONE.

A. Flight Controls (Chapter 27).

- (1) Rudder - Inspect the rudder skins for cracks and loose rivets, rudder hinges, hinge bolts, hinge bearings and hinge attach fittings for evidence of damage or wear, failed fasteners and security. Check the rudder hinge bolts for proper safety of nuts with cotter pins.
- (2) Rudder Bellcrank - Inspect bellcrank stop bolts for proper safetying, corrosion, evidence of damage and safety. Inspect bellcrank cables for proper safetying.
- (3) Rudder Cables - Check cable tension and turnbuckle safetying.
- (4) Rudder Trim Tab - Inspect trim tab skins for cracks and loose rivets. Inspect trim tab hinge for security and evidence of damage, hinge pin for proper installation and cotter pin safetying. Check trim tab free play and travel. Inspect horn and pushrod for evidence of damage and security.
- (5) Rudder Trim Tab Actuator - Inspect actuator for security and evidence of damage, service.
- (6) Rudder Trim Cables - Inspect cable tension and turnbuckle safetying.
- (7) Rudder Gust Lock - Check security, wear and travel.
- (8) Elevator - Inspect the elevator skins for cracks and loose rivets. Check elevator hinges for condition, cracks and security. Inspect hinge bolts, hinge bearings, torque tube, horn and attach fittings for evidence of damage or wear. Check travel and friction.
- (9) Elevator Bellcrank - Inspect bellcrank, pushrods, stop bolts, jam nuts and brackets for corrosion, evidence of damage, failed fasteners and proper safetying.
- (10) Elevator Cables - Check cable tension and turnbuckle safetying.

MECH	INSP	REMARKS

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	MECH	INSP	REMARKS
(11) Elevator Trim Tab - Inspect trim tab skins for cracks and loose rivets. Check trim tab hinge for security and evidence of damage. Check tab free play and travel. Check hinge pin for security. (12) Elevator Trim Tab Actuator - Inspect actuator attach bolts. Inspect pushrod bolts for proper safety of nuts with cotter pins. (13) Elevator Trim Tab Actuator - Service. B. Stabilizers (Chapter 55). (1) Horizontal Stabilizer - Inspect skin for cracks, loose or failed fasteners and evidence of structural damage. Inspect hinge bracketry for cracks and loose and/or working fasteners. (2) Vertical Stabilizer - Inspect skin for cracks, loose or failed fasteners and evidence of structural damage. Inspect hinge bracketry for cracks and loose and/or working fasteners.			
5-38. POWERPLANT.			
A. Propellers (Chapter 61). * (1) Propeller Spinner - Clean, check for cracks, fractures and security of installation.			
B. Powerplant (Chapter 71). (1) Engine Compartment - Check for oil and fuel leaks, general condition. (2) Engine Mounts and Ground Straps - Check condition, security and alignment. (3) Engine Wire Bundle - Check condition and security. * (4) Engine Compartment Hoses, Fuel (Check fuel lines under pressure) Oil and Vacuum - Check for deterioration, leaks, discoloration, bleaching and stiffness. (5) Cowl Flap Hinge - Secure. (6) Cowl Flap Control - Check freedom of movement. * (7) Induction Air Filter - Service. (8) Induction System - Check condition and security of ducting. (9) Engine Baffles and Seals - Check condition and security.			

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	MECH	INSP	REMARKS
C. Engine/Reciprocating (Chapter 72).			
(1) Engine - Clean, check for security of accessories.			
(2) Cylinder Compression - Refer to Engine Manufacturer's Service Bulletin M73-19.			
(3) Engine Cylinders, Rocker Box Covers and Push Rod Housings - Check for fin damage, cracks, oil leakage, security of attachment and general condition.			
(4) Crankcase, Oil Sump and Accessory Section - Inspect for cracks and evidence of oil leakage, check bolts and nuts for looseness and retorque, as necessary.			
D. Ignition (Chapter 74).			
(1) Spark Plugs - Clean and rotate (top right to bottom left, top left to bottom right).			
(2) Ignition Cables - Check condition and security.			
(3) Magnetos - Check magneto to engine timing and security.			
E. Exhaust (Chapter 78).			
* (1) Engine Exhaust System - Check for security, cracks and slip joints.			
F. Turbines (Chapter 81).			
(1) Refer to the Manufacturer's Overhaul Manual for all inspection procedures.			
G. Oil (Chapter 79).			
(1) Engine Oil - Change.			
(2) Engine Oil Filter - Replace filter.			
* (3) Engine Oil Breather - Check.			
(4) Engine Oil Pressure System - Check lines for leaks, bends, cracks and security.			
H. Fire Protection (Chapter 26).			
(1) Detection Sensor - Inspect for security and evidence of damage.			

*50-Hour Requirement, Refer to Paragraph 5-22, B.

CESSNA MODEL T303 MAINTENANCE MANUAL

CESSNA PROGRESSIVE CARE MODEL T303 OPERATION NO. 3

	MECH	INSP	REMARKS
I. Starting (Chapter 80).			
(1) Starter, Starter Solenoid and Electrical Connections - Check.			
5-39. WINGS.			
A. Electrical Power (Chapter 24).			
* (1) Battery Installation - Inspect overboard vent and vent line for damage or obstruction.			
* (2) Battery Cables - Inspect for corrosion and deterioration.			
* (3) Battery Electrolyte - Inspect for spewage and level in each cell.			
* (4) Fuseholders - Ensure all fuses are functional and spares are available.			
B. Wings (Chapter 57).			
* (1) Wings - Check for loose rivets, cracks, loose mounting fasteners and security.			
C. Landing Gear (Chapter 32).			
* (1) Main Gear System - Check actuating time and free fall (flight check).			
* (2) Main Gear Assembly - Check security of installation and attach points for wear and condition.			
* (3) Main Gear Shock Struts - Check for evidence of leakage and proper extension; check strut barrel for corrosion pitting and cleanliness.			
* (4) Main Gear Wheel - Inspection for nicks, cracks, finish abrasion and corrosion.			
* (5) Main Gear Tires - Check for wear cuts and proper inflation.			

*50-Hour Requirement. Refer to Paragraph 5-22, B.

CESSNA MODEL T303 MAINTENANCE MANUAL

CESSNA PROGRESSIVE CARE MODEL T303 OPERATION NO. 3

	MECH	INSP	REMARKS
5-40. NOSE SECTION.			
A. Landing Gear (Chapter 32).			
* (1) Nose Gear Assembly - Check for security of installation, cracks and evidence of damage.			
* (2) Nose Gear Shock Strut - Check for evidence of leakage, proper extension; check strut barrel for corrosion, pitting and cleanliness.			
* (3) Nose Gear Torque Links - Inspect for wear and condition.			
* (4) Nose Gear Torque Links - Lubricate.			
* (5) Nose Gear Trunnion and Pivot Bearings - Lubricate.			
* (6) Shimmy Dampener - Check for security of installation; attach points for wear and condition, lubricate.			
* (7) Nose Gear Wheel - Inspect for nicks, cracks, finish abrasion and corrosion.			
* (8) Nose Gear Tire - Check for wear, cuts and proper inflation.			
5-41. NACELLES.			
A. Fire Protection (Chapter 26).			
(1) Detection Control Unit - Inspect for security and evidence of damage.			
5-42. FUSELAGE.			
A. Fire Protection (Chapter 26).			
(1) Fire Warning Lights - Check operation.			
(2) Portable Hand Fire Extinguisher - Inspect for proper operating pressure, security of installation and evidence of damage.			
B. Equipment/Furnishings (Chapter 25).			
* (1) All Seats - Inspect seat rails for cracks, refer to Chapter for limitations.			

*50-Hour Requirement. Refer to Paragraph 5-22, B.

CESSNA MODEL T303 MAINTENANCE MANUAL

CESSNA PROGRESSIVE CARE MODEL T303 OPERATION NO. 3

- 5-43. SPECIAL INSPECTION ITEMS. Check Maintenance Manual Chapter 5 for special inspection items due. Accomplish all applicable items.
- 5-44. POST INSPECTION.
- A. Lubrication and Servicing - Ensure all required items have been lubricated and/or serviced per Maintenance Manual lubrication and/or servicing charts (Chapter 12).
 - B. Correct all discrepancies, replace cowling, access covers, doors, fairings and other items removed for this inspection.
 - C. Operational Check:
 - (1) Avionics, flight and engine instruments - Check operation.
 - D. Engine Compartment - Check for oil and/or fuel leaks.
 - E. Aircraft File - Check for required materials.
 - F. Check compliance with applicable Service Letters and/or Airworthiness Directives.

OPERATION NO. 3 COMPLETED

AIRCRAFT MODEL/SERIAL _____ REGISTRATION NO. _____

AIRCRAFT HOURS _____ DATE _____

I certify that this Operation was performed on the above aircraft and that this aircraft is approved for return to service.

SUPERVISOR MECHANIC _____ AIRCRAFT INSPECTOR _____

CERTIFICATE NO. _____ CERTIFICATE NO. _____

COMPANY NAME _____

ADDRESS _____ CITY _____ STATE _____

CESSNA PROGRESSIVE CARE

MODEL T303

OPERATION NO. 4



DEALER INFORMATION	CUSTOMER AND AIRCRAFT INFORMATION
ZONE _____ SERVICING _____ DEALER NAME _____ SERVICING _____ DEALER CODE _____ DATE _____	NAME _____ ADDRESS _____ CITY & STATE _____ A/C MODEL _____ AND SERIAL NO. _____ REG. NO. _____ ENG. SERIAL NO. _____ LEFT HAND _____ R.H. _____ ZONE CODE _____ SELLING _____ DEALER CODE _____ WARRANTY _____ START DATE _____

5-45. FUSELAGE.

A. Electrical Power (Chapter 24).

- (1) Alternator Control Unit - Inspect for security, evidence of damage and proper adjustment.
- (2) Volt Ammeter - Inspect for security of installation, condition and operation.
- (3) Circuit Breaker Panel - Inspect for security of installation, cleanliness, circuit breaker operation and for damaged electrical components.

B. Equipment and Furnishings (Chapter 25).

- (1) Pilot's and Copilot's Inertia Reel - Inspect for security of installation, evidence of damage and operation.
 - * (2) Pilot's and Copilot's Seats - Inspect seat rails for wear and/or damage; controls for security of installation and operation; seat structure for evidence of damage.
 - * (3) Cabin Seats - Inspect seat mountings, rails, structure and cushions for evidence of damage.
 - (4) 5th and 6th Seats - Inspect rear seat leg brace as it fits over the seat track; the gap tolerances are: Maximum - 180, Minimum - 140 established by torqueing the two AN3-12A bolts to 50 lb-in. The gap tolerance must be maintained.
 - (5) Seat Belts - Inspect for security of installation, frayed edge and evidence of damage.
 - (6) Baggage Tie-Downs - Inspect for security of installation and evidence of damage.
- C. Flight Controls (Chapter 27).
- (1) Control Wheel - Inspect control wheel for evidence of damage and security. Operate control wheel and check for freedom of movement and proper rigging.
 - (2) Aileron Bellcrank - Visually inspect bellcrank for damage to guard pins, guides and cable attach points. Inspect cable tension and turnbuckle safetying.

MECH	INSP	REMARKS

*50-Hour Requirement, Refer to Paragraph 5-22, B.

CESSNA MODEL T303 MAINTENANCE MANUAL

CESSNA PROGRESSIVE CARE MODEL T303 OPERATION NO. 4

	MECH	INSP	REMARKS
(3) Rudder Pedals - Check rudder pedals and rudder for freedom of movement.			
(4) Rudder Cables - Inspect cable tension and turnbuckle safetying.			
(5) Elevator Cables - Inspect cable tension and turnbuckle safetying.			
(6) Control Column - Inspect control column for evidence of damage, failed fasteners and security. Check control column for freedom of movement.			
(7) Electric Elevator Trim - Operate electric elevator trim. Check trim tab travel.			
(8) Flap Motor and Position Indicator - Check travel, condition and security.			
D. Lights (Chapter 33).			
(1) Cockpit Floodlights - Inspect for damaged; lens and electrical components. Check operation.			
(2) Instrument and Circuit Breaker Panel Lights - Check operation.			
(3) Annunciator Panel - Inspect for security and evidence of damage. Actuate the test mode.			
(4) Passenger Compartment Lights - Check for damage and operation.			
(5) Cabin Information Display - Inspect indicator for security of installation, evidence of damage, damaged electrical components and operation.			
E. Navigation and Pitot/Static (Chapter 34).			
(1) Airspeed Indicator, Barometer Pressure Altimeter and Vertical Speed Indicator - Inspect for security of installation, cleanliness and evidence of damage.			
(2) Magnetic Compass - Inspect for security of installation, cleanliness and evidence of damage. Calibrate the compass.			
(3) Turn and Bank Indicator or Turn Coordinator - Inspect for security of installation, cleanliness and evidence of damage.			
(4) Horizon Gyro - Inspect for security of installation, cleanliness and evidence of damage.			
(5) Adherence to all FAR's that apply to flight instrument repair and accuracy is required.			
(6) Direction Gyro - Inspect for security of installation, cleanliness and evidence of damage.			
(7) Stall Warning System - Check vane for freedom of movement, security. Actuate and check horn.			

*50-Hour Requirement, Refer to Paragraph 5-22, B.

CESSNA PROGRESSIVE CARE

MODEL T303

OPERATION NO. 4

	MECH	INSP	REMARKS
F. Communications and Avionics - Refer to appropriate manufacturer's service manual.			
G. Oxygen (Chapter 35).			
(1) Oxygen System - Check installation and pressure.			
(2) Oxygen Regulator - Check pressure and flow rate.			
(3) Oxygen Masks and Hoses - Check condition and clean.			
(4) Oxygen Cylinder - Inspect condition check hydrostatic test date.			
H. Vacuum (Chapter 37).			
(1) Suction Gage - Inspect for security of installation, condition of connecting hoses and operation of the gage.			
I. Doors (Chapter 52).			
(1) Cabin Door - Inspect for condition, operation and security of installation.			
(2) Cabin Door Seal - Inspect for cuts, abrasions and excessive wear.			
(3) Cabin Door Latch Pins - Inspect for damage, cracks wear and rigging.			
(4) Cabin Door Latch Pin Guides - Inspect for damage, cracks and wear.			
(5) Cabin Door Latch Pin Receptacles - Inspect for damage, cracks and wear.			
(6) Emergency Exit Door - Check for condition and security of installation.			
(7) Door Warning System - Inspect switch at the cabin door for security of installation, adjustment and damaged electrical components.			
J. Stabilizers (Chapter 55).			
(1) Horizontal Stabilizer - Inspect skin for cracks, loose or failed fasteners and evidence of structural damage. Inspect hinge bracketry for cracks and loose and/or working fasteners.			
(2) Vertical Stabilizer - Inspect skin for cracks, loose or failed fasteners and evidence of structural damage. Inspect hinge bracketry for cracks and loose and/or working fasteners.			

*50-Hour Requirement, Refer to Paragraph 5-22, B.

CESSNA PROGRESSIVE CARE

MODEL T303

OPERATION NO. 4

	MECH	INSP	REMARKS
5-46. POWERPLANT.			
A. Powerplant (Chapter 71).			
(1) Engine Compartment Hoses, Fuel (check fuel lines under pressure) Oil and Vacuum - Check for deterioration, leaks, discoloration, bleaching and stiffness.			
(2) Induction Air Filter - Service.			
B. Oil (Chapter 79).			
* (1) Engine Oil Breather Separator - Check.			
C. Vacuum (Chapter 37).			
(1) Vacuum Relief Valve Filters - Clean or replace if damaged or deteriorated.			
(2) Vacuum Relief Valves - Inspect for security, air leaks, and operation.			
(3) Vacuum Lines - Inspect for security of installation and for air leaks.			
D. Propellers (Chapter 61).			
* (1) Propeller Spinner - Clean, check for cracks, fractures and security of installation.			
(2) Propeller Unfeathering Accumulators - Check operation.			
E. Engine Fuel System (Chapter 73).			
(1) Fuel Injection System and Manifold - Inspect for leaking, and manifold drain valves for proper operation.			
(2) Fuel Discharge Nozzles - Inspect orifices and clean.			
(3) Fuel System Plumbing - Check lines for deterioration, chafing, fuel leaks, and security.			
(4) Fuel Flow Indicator - Operational check.			

*50-Hour Requirement. Refer to Paragraph 5-22, B.

CESSNA PROGRESSIVE CARE

MODEL T303

OPERATION NO. 4

	MECH	INSP	REMARKS
5-47. NOSE SECTION.			
A. Landing Gear (Chapter 32).			
* (1) Nose Gear Assembly - Check for security of installation, cracks, and evidence of damage.			
* (2) Nose Gear Shock Strut - Check for evidence of leakage, proper extension; check strut barrel for corrosion, pitting and cleanliness.			
* (3) Nose Gear Torque Links - Inspect for wear and condition.			
* (4) Nose Gear Torque Links - Lubricate.			
* (5) Nose Gear Trunnion and Pivot Bearings - Lubricate.			
* (6) Shimmy Dampener - Check for security of installation; attach points for wear and condition, lubricate.			
* (7) Nose Gear Wheel - Inspect for nicks, cracks, finish abrasions and corrosion.			
* (8) Nose Gear Tire - Check for wear cuts and proper inflation.			
(9) Nose Gear Doors - Check linkage and hinges for wear, damage, security, positive clearance and proper fit.			
B. Engine Controls (Chapter 76).			
(1) Engine Controls - Check travel and security of installation, routing and evidence of damage.			
C. Engine Indicating (Chapter 77).			
(1) Manifold Pressure Gauge - Inspect for security of installation and operation.			
(2) Tachometer - Inspect for security of installation and operation.			
(3) EGT Gauge - Inspect for security of installation and operation.			
(4) Oil Pressure Gauges - Inspect for security of installation and operation.			
(5) Engine Oil Transmitter - Check for leaks and condition of wires.			
(6) Oil Temperature Gauges - Inspect for security of installation and operation.			
(7) Cylinder Head Temperature Gauges - Inspect for security of installation and operation.			

*50-Hour Requirement. Refer to Paragraph 5-22, B.

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CESSNA PROGRESSIVE CARE MODEL T303 OPERATION NO. 4

	MECH	INSP	REMARKS
D. Exhaust (Chapter 78).			
(1) Engine Exhaust System. Check for security, cracks and slip joints.			
5-48. WINGS.			
A. Landing Gear (Chapter 32).			
* (1) Main Gear System - Check actuating time and free fall (flight check).			
* (2) Main Gear Assembly - Check security of installation and attach points for wear and condition.			
* (3) Main Gear Shock Struts - Check for evidence of leakage and proper extension; check strut barrel for corrosion, pitting and cleanliness.			
* (4) Main Gear Wheel - Inspect for nicks, cracks, finish, abrasion and corrosion.			
* (5) Main Gear Tires - Check for wear cuts and proper inflation.			
* (6) Main Gear Retraction Upper Arms - Lubricate.			
B. Wings (Chapter 57).			
* (1) Wings - Check for loose rivets, cracks, loose mounting fasteners and security.			

*50-Hour Requirement, Refer to Paragraph 5-22. B.

CESSNA MODEL T303 MAINTENANCE MANUAL

CESSNA PROGRESSIVE CARE MODEL T303 OPERATION NO. 4

- 5-49. SPECIAL INSPECTION ITEMS. Check Maintenance Manual Chapter 5 for special inspection items due. Accomplish all applicable items.
- 5-50. POST INSPECTION.
- A. Lubrication and Servicing - Ensure all required items have been lubricated and/or serviced per Maintenance Manual lubrication and/or servicing charts (Chapter 12).
 - B. Correct all discrepancies, replace cowling, access covers, doors, fairings and other items removed for this inspection.
 - C. Operational Check:
 - (1) Avionics, flight and engine instruments - Check operation.
 - D. Engine Compartment - Check for oil and/or fuel leaks.
 - E. Aircraft File - Check for required materials.
 - F. Check compliance with applicable Service Letters and/or Airworthiness Directives.

OPERATION NO. 4 COMPLETED

AIRCRAFT MODEL/SERIAL _____ REGISTRATION NO. _____

AIRCRAFT HOURS _____ DATE _____

I certify that this Operation was performed on the above aircraft and that this aircraft is approved for return to service.

SUPERVISOR MECHANIC _____ AIRCRAFT INSPECTOR _____

CERTIFICATE NO. _____ CERTIFICATE NO. _____

COMPANY NAME _____

ADDRESS _____ CITY _____ STATE _____