# The Commander Inspection Program

## INSPECTION GUIDE ONLY

USE MAINTENANCE MANUAL FOR SPECIFIC GUIDANCE/INSTRUCTIONS

© Commander Aircraft Company Bethany, OK

# **Aircraft Data**

COMMANDER N	MODEL:	SERIAL No.: _	REG #:
ENGINE MODI	EL:	ENGINE S/N	V:
PROP MODEL 8	k S/N:		
TACH TIME: _	I	ENGINE TT:	PROP TT:
OIL:Brand	Type	Weight	Quantity/QTS
	NON-I	DETERGENT DE	ETERGENT
GENERAL ITEMS			
1. Check log bo	·		ansponder certification, ELT batter
1. Check log bo	·		ansponder certification, ELT batter
Check log be replacement and replacement and replacement.	recommended tii		
1. Check log be replacement and replacement a	recommended tin	me life items.	ed

ΙN	SPECTION CHEC	CKLIST	MECHANIC	INSPECTOR
En	gine and engine com	partment		
1.	Run up engine in ac discrepancies.	cordance w/ maintenance manual and note a	III	
2.	Remove entire engire signs of fluid leakar Inspect cowling for values. Record as new	e.		
3.	Perform and record check.	a hot engine differential compression		
	Cyl - 1:	Cyl - 2:		
	Cyl - 3:	Cyl - 4:		
4.	Drain oil (ref Lycom	ing Service letter L121)		
5.	Remove and clean screen and safety v	suction screen. Particle check. Reinstall vire.		
6.		ment and safety. Particle check.		
7.		n from gascolator/strainer assembly. Clean w gaskets. Check drain function. Safety		
8.		ct, clean, gap, test and reinstall or replace tall using 360 - 420 in lbs. torque.		
9.		int condition and timing. 500 hr service if		
	element (Brackett)			
11	.Remove & clean inj	ector finger screen. Reinstall and safety.		
12	.Remove, clean, & r	eplace injector nozzles		
13	operation: Spark plug leads Manual priming Intake system All studs and nu All fluid carrying All wiring and co	lines and fittings onnectors and linkage (condition and travel)		

INSPECTION CHECKLIST	MECHANIC	INSPECTOR
<ol> <li>Inspect cabin doors and door seals for condition, security, and operation</li> </ol>		
5) Inspect baggage door, door seal, and interior		
6) Inspect landing light, lens, & assembly		
7) Inspect static wicks for condition, security, & cleanliness		
<ul> <li>8) Remove wing and fuselage inspection panels and inspect following items for leaks, condition, &amp; cleanliness:</li> <li>a) All electrical wiring and connectors</li> <li>b) All fluid carrying lines</li> <li>c) All internal structures</li> <li>d) Ventilating ducts</li> <li>e) Front landing light and lens</li> <li>f) Nose wheel structure</li> </ul>		
Inspect wing to fuselage attachments		
10) Inspect fuel cell area for external leakage & verify operation of gage transmitters, sump drains, & tank selector valve.		
11) Verify operation, condition, & fit of fuel vent lines, fuel caps, fuel tank anti-siphon flaps. Verify appropriate fuel placards.		
<ul><li>12) Inspect all control surfaces and trim tabs for operation, &amp; proper travel.</li><li>Ref Maintenance Manual figure 7-13 Record:</li></ul>		
LT Flap RT Flap LT Aileron		
RT Aileron Elevator Elevator Trim		
a) Check all control surface cable tensions.		
Record:		
Aileron Rudder Elevator		
Elevator trim		
b) Check all rod ends and actuating mechanisms		
c) Check rudder aileron interconnect rigging		
d) Check aircraft rigging to factory specs		

to other items of installed equipment for condition, security,

cleanliness and operation.

## **LANDING GEAR & BRAKE SYSTEM MECHANIC INSPECTOR** 1) Check landing gear properly down and locked. 2) Ensure parking brake is disengaged and chock aircraft. Secure tail stand to tail tie down ring. Lubricate all recommended fittings and areas. Ref. Maintenance manual Fig. 2-15 and associated Figures. (incl zerk ftg on nose gear and 14641 & gear actuator rod ends 3) Check all landing gear struts for proper hydraulic fluid, servicing, and inflation. Nose Gear: 90 PSI Main Gear: 150 PSI 4) Inspect following items for condition (undue/excessive wear, fatigue, distortion), security, and cleanliness: a) Nose & Main landing gear struts b) Sidebraces & Scissors c) Microswitches and Wiring d) Landing gear doors and linkage e) Landing gear actuating cylinders, hydraulic lines and attach points f) Shimmy damper (service if reg'd), nosewheel steering/cylinder and cables. g) Landing/taxi lights, lens, and assembly (if installed on gear) 5) Perform a complete landing gear rigging and operational check including the emergency gear extension system. NOTE: Ensure gear warning system lights (4), gear warning bell, overcenter limits in drag braces, squat safety switch and proper closing of gear doors are checked. W/ gear in UP position the warning horn should actuate when the throttle is reduced to between 12 and 15 inches of MP or the wing flaps are extended to 22.5 (+/- .5) degrees or more. 6) Inspect wheels and brakes (including brake lines) for wear and condition. Repack wheel bearings (MIL-G-3545 bearing grease or equivalent.) Clean & lube slide pins.

INSPECTION CHECKLIST M	IECHANIC	INSPECTOR
7) Ensure parking brake is disengaged and remove tailstand from aircraft. Remove aircraft from jacks.		
8) Check tires for condition and inflate to:		
Nose wheel: 31 PSI Mains Wheels: 29 PSI		
Check & service brake system as required using MIL-H-5606 hydraulic fluid		
10) Inspect parking brake system for proper operation		

# 1) Reinstall and secure all removed panels, stinger, etc. 2) Check upper and lower cowling properly installed and secure (note: confirm attachment of cowl door hinge support brackets) 3) Start and warm-up engine per maintenance manual. Remove top cowling 4) Inspect for oil or fuel leaks in engine compartment. Correct any discrepancies. 5) Lubricate all recommended fittings and areas 6) Re-install and secure top cowling. 7) Complete static system leak check