

LM-79  
PH3  
04/08/22

SCHEDULED INSPECTION PROGRAM (Effectivity: LM-79)

PHASE 3 INSPECTION (Effectivity: LM-79)

A. NOSE SECTION	REFERENCE	MECH	INSP
1. COMBUSTION HEATER <i>Not Installed In Aircraft</i> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">N/A</span>			
a. Check the gap and condition of the heater spark plug.	21-40-00 Chapter 13	N/A	
b. Check fuel plumbing, pump and regulator for leakage, damage and security of attachment	21-40-00 Chapter 13	N/A	
c. Clean and inspect the system fuel filter at the inlet port of the fuel control valve.	21-40-00 Chapter 13	N/A	
d. Check the fuel heater for operation, condition and attachment.	21-40-00 Chapter 13	N/A	
e. Inspect the heater drain lines for obstructions.	21-40-00 Chapter 13	N/A	
f. Functional check the heater-out warning light for proper operation.	21-40-00	N/A	

PHASE 3 INSPECTION (Effectivity: LM-79) (Continued)

B. NOSE AVIONICS COMPARTMENT	REFERENCE	MECH	INSP
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">There are no inspections required on this section during this phase.</p>			
<b>C. NOSE LANDING GEAR AREA</b>			
1. ELECTRICAL WIRING AND EQUIPMENT - Inspect all exposed electrical wiring and equipment for chafing, damage and security of attachment	AC43.13-1B/-2B	TN	
<b>D. NOSE LANDING GEAR</b>			
1. WHEEL			
a. Inspect wheel for wear, damage and corrosion.	32-40-00 CMM Chapter 3	JR	
b. Inspect wheel bearings and races for wear, pitting, cracks, discoloration, rust or other indications of damage.	32-40-00 CMM Chapter 3	JR	
2. TIRE			
a. Inspect for wear and deterioration.	12-20-00 CMM Chapter 3	JR	
b. Check for correct inflation.	12-20-00 CMM Chapter 3	JR	
3. SHIMMY DAMPER - Inspect for leaks, security and attachment.	12-20-00 32-20-00 Chapter 3	JR	
4. NOSE GEAR BRACE STOP LUGS - Inspect for cracks, damage or distortion	32-20-00	JR	
5. NOSE GEAR STEERING STOP - Inspect steering stop for damage or distortion	32-20-00 32-50-00	JR	
6. TAXI LIGHT - Inspect for broken lenses or bulbs.	33-40-00 Chapter 9	TN	
7. STEERING LINKAGE - Inspect nose gear steering mechanism and attaching hardware for wear, damage, and corrosion.	32-50-00 Chapter 3	JR	

## PHASE 3 INSPECTION (Effectivity: LM-79) (Continued)

<b>D. NOSE LANDING GEAR (Continued)</b>	REFERENCE	MECH	INSP
8. NOSE-GEAR RETRACT and EXTENSION CHAINS (Exterior and interior)			
a. Inspect chains for broken links, excessive pin and link wear, misalignment, rust, corrosion and dirt.	32-30-00	TN	
b. Check sprockets for excessive wear and hook-shaped teeth.	32-30-00	TN	
c. Check chains for proper tension.	32-30-00	TN	
d. Check nose gear nose gear linkage clearance from electrical wires and obstructions.	32-30-00	JR	
9. UPPER DRAG BRACE ATTACHMENT – Inspect bushing blocks, support beam and intercoastals for looseness and attachment. (If looseness is found, replace loose fasteners with HI_LOCK fasteners on HUCK Bolts.)		TN	
<b>E. PILOT'S COMPARTMENT</b>			
<b>1. WINDSHIELDS</b>			
a. Inspect windshield for cracks and visibility impairment.	56-10-00 Chapter 9	BAS	
b. Inspect windshield weather seal for debonding, cracks or wear.	56-10-00 Chapter 9	GO	
2. WINDOWS - Inspect exterior surface of cockpit side windows for deep scratches, chips, excess crazing or other damage.	56-15-00 Chapter 9	BAS	
3. SEAT BELTS AND SHOULDER HARNESSSES - Inspect seat belts and shoulder harnesses for deterioration.	AC43.13-1B/-2B	BAS	
4. SEAT TRACKS - Inspect seat tracks for damage and wear.	25-10-00 Chapter 2	BAS	
5. PORTABLE FIRE EXTINGUISHER - Inspect the bottle for signs of damage and mount for security of attachment.	26 of CMM Chapter 17	BAS	
6. PILOT'S COMPARTMENT AREA - Inspect skin, structure, seats and attaching hardware for wear, damage and corrosion. If damage or corrosion is found in a given area, check the adjacent area.	25-10-00	GO	

## PHASE 3 INSPECTION (Effectivity: LM-79) (Continued)

E. PILOT'S COMPARTMENT (Continued)	REFERENCE	MECH	INSP
7. ELECTRICAL WIRING AND EQUIPMENT - Inspect for chafing, damage, proper routing of wire bundles and security of attachment.	AC43.13-1B	GO	
8. RUDDER PEDALS			
a. Inspect rudder pedals for wear, clearance, attachment, and adjustment.	27-20-00 Chapter 11	GO	
b. Inspect rudder pedal linkage for wear, damage, attachment and operation.	27-20-00 Chapter 11	GO	
9. FLIGHT CONTROL COMPONENTS, CABLES AND PULLEYS			
a. Inspect control system components (pushrods, turnbuckles, end fittings, castings, pulley brackets, etc.) For bulges, splits, bends or cracks which are conditions for replacement.	27-10-00 27-20-00 Chapter 11	GO	
b. Inspect control cables, pulleys and associated equipment for wear, cracks, breaks, attachment, alignment, clearance and proper operation. Replace cables that have more than 3 broken wires in any given 3-foot cable length or have evidence of corrosion.	27-10-00 27-20-00 27-30-00 20-04-00 Chapter 11	GO	
10. FLIGHT CONTROL CABLE TENSION – Inspect, measure, and record aileron cable tension: TEMPERATURE: <u>68.5</u> °F Control Column Interconnect Cable Tension: <u><del>40</del></u> 1/8" Aileron Cable Tension: LEFT <u>40</u> Right <u>40</u>	27-10-00 Chapter 11	GO	
11. BRAKE SYSTEM - Inspect brake system components and plumbing for leakage and attachment.	32-40-00 Chapter 7	PAM	
12. INSTRUMENT PANEL, PLUMBING AND WIRING - Inspect instrument panel, subpanels, placards, shock mounts, and instrument plumbing for damage, attachment, chafing and hoses for hardness or cracks.	39-10-00 Chapter 8	TN	
13. CONTROL COLUMN			
a. Inspect for wear, damage, corrosion, attachment and operation.	27-10-00 Chapter 11	TN	
b. Inspect control wheel adapter for cracks in weld area of adapter on forward side of control wheel.	27-10-00 Chapter 11	TN	
c. Inspect control wheel switches for condition and security of attachment.	27-10-00 Chapter 11		

## PHASE 3 INSPECTION (Effectivity: LM-79) (Continued)

<b>E. PILOT'S COMPARTMENT (Continued)</b>	<b>REFERENCE</b>	<b>MECH</b>	<b>INSP</b>
14. PEDESTAL- Inspect pedestal components and plumbing for damage, attachment, chafing and hoses for hardness or cracks.	39-10-00 Chapter 8	TN	
15. ALTERNATE AIR VALVE- Drain of all moisture.	34-00-00 Chapter 8	TN	
16. ACCESS DOORS - Inspect for fit and attachment.	6-50-00 Chapter 2	TN	
17. RELIEF TUBE (IF INSTALLED)			
a. Inspect plumbing and storage box for corrosion.			
b. Inspect relief tube outlet area for corrosion.			
18. DUAL BUS FEEDER AND FUEL PANEL DIODES - Inspect diodes per inspection procedure.	24-50-00 Chapter 9	P.	
19. HEATING SYSTEM - Check all ducts for damage and deterioration.	21-20-00 Chapter 13	BAS	
<b>F. CABIN SECTION</b>			
1. WINDOWS - Inspect exterior surface of window for deep scratches, cracks, chips, excessive crazing or other damage.	Chapter 2	BAS	
2. ROTATING OR FLASHING BEACON - Inspect for cracked or broken lenses.	33-40-00 Chapter 9	BAS	
3. ACCESS DOORS - Inspect for fit and attachment.	6-50-00 Chapter 2	BAS	
4. SEAT BELTS AND SHOULDER HARNESSSES - Inspect seat belts and shoulder harnesses for deterioration.	AC43.13-1B	N/A	
5. SEAT TRACKS - Inspect seat tracks for damage and wear.	25-20-00 Chapter 2	BAS	
6. OXYGEN SYSTEM			
a. Test all outlets and masks for proper oxygen flow.	35-00-00 Chapter 12	MA	

## PHASE 3 INSPECTION (Effectiv ty: LM-79) (Continued)

F. CABIN SECTION (Continued)	REFERENCE	MECH	INSP
b. Inspect oxygen system installation for damage and security of attachment	35-00-00 Chapter 12	<i>MJA</i>	
7. TOILET (IF INSTALLED) - Inspect for spillage and leakage below the toilet. <i>Toilet Not Installed in Aircraft</i>	38-30-00	N/A	
8. CABIN/CARGO ENTRANCE DOOR			
a. Inspect the door seal for cuts, abrasions, and security of attachment.	52-10-00 Chapter 2	<i>BSAT</i>	
b. Inspect the cabin door support cables for wear, damage, and security.	52-10-00 Chapter 2	<i>BSAT</i>	
c. Inspect door latching mechanism and cables for damage, deterioration and security of attachment.	52-10-00 Chapter 2	<i>BSAT</i>	
d. Inspect side latch bolts (bayonets) for rigging and freedom of movement.	52-10-00 Chapter 2	<i>BSAT</i>	
e. Inspect the forward and aft frame for cracks in area of bayonet roller attach screws. If cracks are found, Inspect adjacent structure for damage.	52-10-00 53-10-00 Chapter 2	<i>BSAT</i>	
f. Inspect the CABIN DOOR / CABIN DOOR OPEN annunciator switch spring.	52-70-00 Chapter 2	<i>BSAT</i>	
9. BULKHEADS - Inspect for water traps.		<i>JR</i>	
10. FLIGHT CONTROLS			
a. Inspect control system components (pushrods, turnbuckles, end fittings, castings, etc.) For bulges, splits, bends and cracks that are conditions for replacement.	27-10-00 27-20-00 27-30-00 Chapter 11	<i>BSAT</i>	
b. Inspect control cables, pulleys, and associated equipment for cracks, damage, attachment, alignment, clearance and proper operation. Replace cables that have more than 3 broken wires in any given 3-foot cable length or have evidence of corrosion.	27-10-00 27-20-00 27-30-00 Chapter 11 27-04-00	<i>BSAT</i>	
c. CONTROL CABLE TENSION - Check Aileron Control Cable Tension ahead of Aileron Bell-Crank	27-10-00 27-20-00 27-30-00 Chapter 11	<i>GO</i>	

## PHASE 3 INSPECTION (Effectivity: LM-79) (Continued)

F. CABIN SECTION (Continued)	REFERENCE	MECH	INSP
11. LANDING GEAR BRAKE LINES - Inspect for leaks, damage and security of attachment.	32-40-00	BPT	
12. FLAP MOTOR AND DRIVES - Inspect for damage and attachment.	27-50-00 Chapter 11	BPT	
13. BELLY DRAINS - Inspect for possible obstructions.		BPT	
14. CABIN WINDOW ATTACH FRAMES - Perform inspection and repair of window attach frames.	56-15-00 Chapter 2	BPT	
15. PNEUMATIC PRESSURE REGULATOR, VACUUM EJECTOR, AND DEICER DISTRIBUTION VALVE - Inspect equipment and plumbing for security.	30-10-00	BPT	
16. AUTOPILOT COMPONENTS – (IF INSTALLED) Inspect components for security of attachment.	22-10-00 Chapter 11	BPT	
17. RELIEF TUBE (IF INSTALLED)			
a. Inspect plumbing and storage box for corrosion.		BAT	
b. Inspect relief tube outlet area for corrosion.		BAT	
18. ANTENNAS - Inspect all external antennas for leading edge erosion and condition of base seals.		BAT	
19. PORTABLE FIRE EXTINGUISHER - Inspect bottle for damage and security of attachment.	26 of CMM Chapter 17	GO	
20. CABIN DOORS AND EMERGENCY EXIT - Inspect skin, structure, and attaching hardware for wear, damage and corrosion. If damaged or corrosion is found in a given area, check the adjacent area.	53-10-00 52-20-00	BPT	
21. EMERGENCY EXIT			
a. Inspect latches for damage and check all moving parts for proper operation.	52-20-00	TN	

PHASE 3 INSPECTION (Effectivity: LM-79) (Continued)

F. CABIN SECTION (Continued)	REFERENCE	MECH	INSP
b. Check for proper latch adjustment and seal of closed latches.	52-20-00 Chapter 2	TN	
22. ELECTRICAL WIRING AND EQUIPMENT - Inspect all exposed electrical wiring and equipment for chafing, damage and security of attachment.	AC43.13-1B/-2B	HOK	
<b>G. REAR FUSELAGE AND EMPENNAGE</b>			
1. REAR FUSELAGE DRAINS – Clean and inspect rear fuselage drains.	53-10-00	TN	
<b>2. ELT BATTERY</b>			
a. Inspect for leakage, corrosion or loose connections.	25-60-00	RA	
b. Determine remaining useful life.	25-60-00	RA	
3. NAVIGATION LIGHTS AND ROTATING (FLASHING) BEACONS - Inspect for broken or cracked lenses.	33-40-00 Chapter 9	BMT	
4. ACCESS DOORS - Inspect for fit and security of attachment.	6-50-00 Chapter 2	TN	
5. VENTRAL FIN DRAIN HOLES - Inspect the drain holes in the bottom of the ventral fin for obstructions.		TN	
6. DEICER BOOTS - Inspect for deterioration, damage and attachment.	30-10-00 Chapter 12	BMT	
7. RUDDER AND TRIM TAB DRAIN HOLES - Inspect the drain holes for obstructions.		TN	
<b>8. STATIC WICKS</b>			
a. Inspect for damage and security of attachment.	23-60-00 Chapter 11	GO	
b. Check for proper bonding to the airplane.	23-60-00 Chapter 11	GO	

## PHASE 3 INSPECTION (Effectivity: LM-79) (Continued)

G. REAR FUSELAGE AND EMPENNAGE (Continued)	REFERENCE	MECH	INSP
9. FLIGHT CONTROL CABLE TENSION – Inspect, measure, and record elevator, elevator tab, rudder and rudder tab cable tensions: TEMPERATURE: <u>68.5</u> °F Elevator Cable Tension: UP <u>37</u> DOWN <u>35</u> Elevator Tab Cable Tension: <u>37</u> Rudder Cable Tension: <u>79</u> Rudder Tab Cable Tension: _____ <i>Disconnected 05 Apr 22</i>	27-10-00 Chapter 11	60	
<b>H. LEFT-HAND OUTBOARD WING</b>			
1. FUEL QUANTITY TRANSMITTERS - Inspect for leaks at points of attachment	28-40-00 28-41-00 Chapter 8	JK	
2. WING ATTACH FITTING DRAIN HOLES - Determine that the drain holes are open in the wing center section and outboard wing upper attachment fittings.	57-00-00 Chapter 2	JK	
<b>3. LIGHTS</b>			
a. Inspect the navigation and recognition lights (if installed) for broken or cracked lenses.	33-40-00 Chapter 9	JK	
b. Inspect the strobe light for broken or cracked lenses, if installed.	33-40-00 Chapter 9	JK	
c. Inspect the landing lights for broken or cracked lenses.	33-40-00 Chapter 9	JK	
<b>4. FUEL TANKS AND VENTS</b>			
a. Inspect the exterior of the wing for leaks.	28-00-00 28-10-00	JK	
b. Inspect fuel cap for damage and attachment.	28-00-00 28-10-00 CMM	JK	
c. Inspect exterior openings of vents for obstructions.	28-00-00 Chapter 10	JK	

## PHASE 3 INSPECTION (Effectivity: LM-79) (Continued)

H. LEFT-HAND OUTBOARD WING (Continued)	REFERENCE	MECH	INSP
5. DEICER BOOTS - Inspect exterior surface for deterioration, damage and attachment.	30-10-00 Chapter 12	JK	
6. ACCESS DOORS (INSPECTION PANELS) - Inspect for fit and attachment.	6-50-00 Chapter 2	JK	
7. STATIC WICKS			
a. Inspect for damage and security of attachment.	23-60-00 Chapter 11	GO	
b. Check for proper bonding to the airplane.	23-60-00 Chapter 11	GO	
8. AILERON TRIM TAB - Check trim tab free play.	27-10-00 Chapter 11	JK	
9. FLIGHT CONTROL CABLE TENSION – Inspect, measure, and record aileron and aileron tab cable tensions: TEMPERATURE: <u>65</u> 3/16" Aileron Cable Tension: Left <u>50</u> Aileron Trim Cable Tension: <u>9</u>	27-10-00 Chapter 11	JK	
<b>I. LEFT-HAND WING CENTER SECTION</b>			
1. FUEL QUANTITY TRANSMITTERS - Inspect for leaks at points of attachment.	28-40-00 28-41-00 Chapter 8	BNT	
2. FUEL TANKS AND VENTS			
a. Inspect the exterior of the center section for leaks.	28-00-00 28-10-00	JK	
b. Inspect fuel cap for damage and attachment.	28-00-00 28-10-00	JK	
c. Inspect the exterior openings of the vents for obstructions.	CMM		
3. ACCESS DOORS (INSPECTION PANELS) - Inspect for fit and attachment.	6-50-00 Chapter 2	JK	
4. FUEL PUMPS - Inspect the pumps for leaks and security of attachments.	28-20-00 28-21-00 Chapter 10	TN	

## PHASE 3 INSPECTION (Effectivity: LM-79) (Continued)

J. LEFT-HAND MAIN LANDING GEAR AREA	REFERENCE	MECH	INSP
1. WHEELS			
a. Inspect wheels for wear, damage and corrosion.	32-40-00	BAT	
b. Inspect wheel bearings and races for wear, pitting, cracks, discoloration, rust or other indications of damage.	32-40-00 CMM	TN	
2. BRAKES - Inspect brake discs, linings and plumbing for wear, damage, leaks, corrosion and security of all components.	32-40-00 CMM Chapter 7	TN	
3. TIRES - Inspect tires for wear, deterioration and correct inflation.	12-20-00 CMM Chapter 3	BAT	
4. LEFT MAIN LANDING GEAR STRUT - Check strut for leaks and proper extension.	12-20-00 Chapter 3	BAT	
5. ELECTRICAL WIRING AND EQUIPMENT - Inspect exposed wiring and equipment for chaffing, damage, and proper routing and security of attachment.	AC43.13-1B/-2B	BAT	
6. MAIN LANDING GEAR ACTUATOR			
a. Inspect actuator support brackets for visible damage and wear.	32-30-00 Chapter 3	BAT	
b. Inspect brackets for cracks and loose or missing rivets.	32-30-00 Chapter 3	BAT	
c. Inspect actuators for leakage of internal lubricant.	32-30-00 Chapter 3	BAT	
7. DRAG BRACE			
a. Inspect elliptical hole for excessive wear.	32-10-00 CMM	TN	
b. Inspect for security of attach fittings and cracks.	32-10-00 Chapter 3	TN	
c. Inspect downlock bolts for proper torque (finger-tight and safety-wired).	CMM	TN	
d. Inspect mount bolts for wear.	32-10-00	TN	
8. MAIN LANDING GEAR AREA - Inspect wheel well and gear door structure, all components and attaching hardware for wear, damage, and corrosion. If damage or corrosion is found, check the adjacent area.	32-10-00 Chapter 3	BAT	

## PHASE 3 INSPECTION (Effectivity: LM-79) (Continued)

K. LEFT-HAND ENGINE	REFERENCE	MECH	INSP
1. FUEL FILTERS AND SCREENS - Inspect the firewall filter for evidence of foreign matter, corrosion, or microbiological growth in the fuel system. If any microbiological growth is found, use BIOBOR JF or Kathon KP 1.5 additive. * Note Measure distance from bottom end of bowl mounting bolt to flat bottom surface housing. If more than 3.1 inches, remove and inspect for bolt looseness or pulling. Repair or replace	12-10-00		
2. PROPELLER DEICER - Inspect propeller deice system (spinner removal required).	30-60-00 CMM Chapter 12		
3. PROPELLERS - Inspect for damage and attachment (spinner removal required).	61-10-00 61-11-00 Chapter 5		
4. ENGINE OIL FILTER - Inspect for metal particles.	P&W MM		
5. INERTIAL ANTI-ICER VANE			
a. Check vane for freedom of movement and correct travel. Lubrication of linkage and vane hinges may be necessary.	12-20-00 30-21-00 Chapter 12		
b. Check the push-pull control for damage, security of attachment, freedom of movement and full travel.	12-20-00 30-21-00 Chapter 12		

## PHASE 3 INSPECTION (Effectivity: LM-79) (Continued)

L. RIGHT-HAND OUTBOARD WING	REFERENCE	MECH	INSP
1. FUEL QUANTITY TRANSMITTER - Inspect for leaks at points of attachment.	28-40-00 28-41-00 Chapter 8	JK	
2. WING ATTACH FITTING DRAIN HOLES - Determine that the drain holes are open in the wing center section and outboard wing upper attachment fittings.	57-00-00 Chapter 2	JK	
3. LIGHTS			
a. Inspect the navigation and recognition lights (if installed) for broken or cracked lenses.	33-40-00 Chapter 9	JK	
b. Inspect the strobe light (if installed) for broken or cracked lenses.	33-40-00 Chapter 9	JK	
c. Inspect the landing light for broken or cracked lenses.	33-40-00 Chapter 9	JK	
4. FUEL TANKS AND VENTS			
a. Inspect exterior openings of vents for obstructions.	28-00-00 Chapter 10	JK	
b. Inspect fuel cap for damage and attachment.	28-00-00 28-10-00 CMM	JK	
c. Inspect the exterior of the wing for leaks.	28-00-00 28-10-00	JK	
5. DEICER BOOTS - Inspect exterior surface for deterioration, damage and attachment.	30-10-00 Chapter 12	JK	
6. ACCESS DOORS (INSPECTION PANELS) - Inspect for fit and attachment.	6-50-00 Chapter 2	JK	
7. STATIC WICKS			
a. Inspect for damage and security of attachment.	23-60-00 Chapter 11	GO	
b. Check for proper bonding to the airplane.	23-60-00 Chapter 11	GO	
8. AILERON AND TRIM TAB - Check trim tab free play.	27-10-00 Chapter 11	JK	

## PHASE 3 INSPECTION (Effectivity: LM-79) (Continued)

L. RIGHT-HAND OUTBOARD WING (Continued )	REFERENCE	MECH	INSP
9. FLIGHT CONTROL CABLE TENSION – Inspect, measure, and record aileron and aileron tab cable tension: TEMPERATURE: <u>60</u> °F 3/16" Aileron Cable Tension: RIGHT <u>55</u>	27-10-00 Chapter 11	JK	
<b>M. RIGHT-HAND WING CENTER SECTION</b>			
1. FUEL QUANTITY TRANSMITTER - Inspect for leaks at points of attachment.	28-40-00 28-41-00 Chapter 8	BPC	
2. FUEL TANKS			
a. Inspect the exterior of the center section for leaks.	28-00-00 28-10-00	JK	
b. Inspect fuel cap for damage and attachment.	28-00-00 28-10-00 CMM	JK	
c. Inspect the exterior openings of the vents for obstructions	CMM	JK	
3. ACCESS DOORS (INSPECTION PANELS) - Inspect for fit and attachment	6-50-00 Chapter 2	JK	
<b>4. BATTERY</b>			
a. Service battery as required.	12-20-00 Chapter 9	TN	
b. Remove battery and inspect battery box, cables and vent tubes for deterioration or obstructions.	24-30-00 Chapter 2	TN	
5. FUEL PUMPS - Inspect the pumps for leaks and security of attachment.	28-20-00 28-21-00 Chapter 10	TN	
<b>N. RIGHT-HAND MAIN LANDING GEAR AREA</b>			
<b>1. WHEELS</b>			
a. Inspect wheels for wear, damage and corrosion.	32-40-00	JK	
b. Inspect wheel bearings and races for wear, pitting, cracks, discoloration, rust or indications of damage.	32-40-00 CMM	JK	

## PHASE 3 INSPECTION (Effectivity: LM-79) (Continued)

N. RIGHT MAIN LANDING GEAR AREA (Continued)	REFERENCE	MECH	INSP
2. BRAKES - Inspect brake discs, linings and plumbing for wear, damage, leaks, corrosion and security of components.	32-40-00 Chapter 7 CMM	TN	
3. TIRES - Inspect tires for wear, deterioration and correct inflation.	12-20-00 Chapter 1 CMM	TN	
4. RIGHT MAIN LANDING GEAR STRUT - Check strut for leaks and proper extension.	12-20-00 Chapter 1	BAG	
5. ELECTRICAL WIRING AND EQUIPMENT- Inspect exposed wiring and equipment for chafing, damage, proper routing and security of attachment.	AC43.13-1B/-2B	BAG	
<b>6. MAIN LANDING GEAR ACTUATOR</b>			
a. Check actuator support brackets for visible damage and wear.	32-30-00 Chapter 3	BAG	
b. Inspect brackets for cracks and loose or missing rivets.	32-30-00 Chapter 3	BAG	
c. Inspect actuators for leakage of internal lubricant.	32-30-00 Chapter 3	BAG	
<b>7. DRAG BRACE</b>			
a. Inspect elliptical hole for excessive wear.	32-10-00 CMM	TN	
b. Inspect for security of attach fittings and cracks.	32-10-00 Chapter 3	TN	
c. Inspect downlock bolts for proper torque (finger-tight and safety-wired).	32-10-00	TN	
d. Inspect mount bolts for wear.	32-10-00	TN	
8. MAIN LANDING GEAR AREA - Inspect wheel well and gear door structure, all components and attaching hardware for wear, damage, and corrosion. If damage or corrosion is found, check the adjacent area.	32-10-00	BAG	
<b>O. RIGHT-HAND ENGINE</b>			
1. FUEL FILTERS AND SCREENS - Inspect the firewall filter for evidence of foreign matter, corrosion or microbiological growth in the fuel system. If any microbiological growth is found, use BIOBOR JF or Kathon KP 1.5 additive. *Note Measure distance from bottom end of bowl mounting bolt to flat bottom surface housing. If more than 3.1 inches, remove and inspect for bolt looseness or pulling. Repair or replace.	12-10-00	BAG	

## PHASE 3 INSPECTION (Effectivity: LM-79) (Continued)

O. RIGHT-HAND ENGINE (Continued)	REFERENCE	MECH	INSP
2. PROPELLER DEICER - Inspect propeller deice system (spinner removal required).	30-60-00 Chapter 12	TN	
3. PROPELLER - Inspect for damage and attachment (spinner removal required).	61-10-00 61-11-00 Chapter 5	TN	
4. ENGINE OIL FILTER - Inspect for metal particles.	P&W MM	TN	
5. INERTIAL ANTI-ICER VANE			
a. Check vane for freedom of movement and correct travel. Lubrication of linkage and vane hinges may be necessary.	12-20-00 30-31-00 Chapter 12	TN	
b. Check the push-pull control for damage, security of attachment, freedom of movement and full travel.	12-20-00 30-22-00 Chapter 4	TN	
<b>P. LANDING GEAR RETRACTION AND EXTENSION</b>			
<b>NOTE</b> Since battery voltage is not sufficient to properly cycle the landing gear, use only an external power source capable of delivering and maintaining 28.25 (+ or - 0.25) volts throughout the extension and retraction cycles when performing the landing gear retraction inspection.			
1. RETRACTION MECHANISM - Check retraction and extension system for proper operation of all components through at least two complete cycles.	32-10-00 32-20-00 Chapter 3	OK	
2. DOORS AND LINKAGE			
a. Check doors for damage, operation and fit.	32-10-00 32-20-00 Chapter 3	OK	
b. Check door linkages for wear, damage and rigging.	32-10-00 32-20-00 Chapter 3	OK	
3. DOWNLOCK INDICATOR SWITCHES			
a. Check for security and proper operation of switches.	32-60-00 Chapter 9	OK	

## PHASE 3 INSPECTION (Effectivity: LM-79) (Continued)

P. LANDING GEAR RETRACTION AND EXTENSION (Continued)	REFERENCE	MECH	INSP
b. Check wiring for damage and security of connection.	32-60-00 Chapter 9	JK	
4. UPLOCK INDICATOR SWITCHES			
a. Check security and proper operation of switches.	32-60-00 Chapter 9	JK	
b. Check wiring for damage and security of connection.	32-60-00 Chapter 9	JK	
5. WARNING HORN - Check operation	32-60-00 Chapter 9	JK	
6. MAIN GEAR DOWNLOCKS - Check locking mechanism for positive engagement in extended position.	32-10-00 Chapter 3	JK	
7. SAFETY SWITCH - Check for security and proper operation.	32-60-00 Chapter 3	JK	
8. ACTUATORS - Check for noise, binding and proper rigging.	32-30-00 Chapter 3	JK	
9. LIMIT SWITCHES			
a. Check for correct adjustment.	32-30-00 Chapter 9	JK	
b. Check for security of attachment.	32-30-00 Chapter 9	JK	
10. EMERGENCY EXTENSION - Check system for freedom of operation and positive engagement of downlocks.  <p style="text-align: center;"><b>CAUTION</b></p> Do not continue operation after receiving a gear-down indication on all gears. Further movement of the handle could damage the drive mechanism and prevent subsequent electrical gear retraction. The landing gear cannot be retracted manually.	32-30-00 Chapter 3	JK	

## PHASE 3 INSPECTION (Effectivity: LM-79) (Continued)

P. LANDING GEAR RETRACTION AND EXTENSION (Continued)	REFERENCE	MECH	INSP
11. NOSE GEAR RETRACT CHAIN (Exterior only) - Check nose gear and nose gear linkage clearance from electrical wires and obstructions.	32-30-00		
<b>Q. OPERATIONAL INSPECTION</b>			
<p style="text-align: center;"><b>NOTE</b></p> <p>The following Operational Inspection procedures are to be applied during start and run of the engine. Refer to the FAA Approved Airplane Flight Manual for the engine start and run procedures.</p>			
1. FIREWALL SHUTOFF VALVES - Check for proper operation.		TN	
2. CROSSFEED VALVE - Check for proper operation.		TN	
3. BOOST PUMPS - Check for proper operation.		TN	
4. LOW PRESSURE ENGINE DRIVEN FUEL PUMP (If Installed) - Check for proper operation.		N/A	
5. STARTER-GENERATOR			
a. Check starter for proper operation.		TN	
b. Check generator for proper output.		TN	
6. IGNITION			
a. Check for proper operation.		TN	
b. Check for annunciator panel light illumination.		TN	
7. ENGINE OIL - Check for proper pressure and temperature limits.		TN	
8. FUEL QUANTITY GAGES – Check for proper operation.			
9. INTERSTAGE TURBINE TEMPERATURE / TURBINE INLET TEMPERATURE - Check for correct limits on engine start.		TN	

## PHASE 3 INSPECTION (Effectivity: LM-79) (Continued)

Q. OPERATIONAL INSPECTION (Continued)	REFERENCE	MECH	INSP
10. VACUUM/PRESSURE (whichever system is installed) INSTRUMENT AIR SYSTEM - Check for correct limits.		TN	
11. PNEUMATIC PRESSURE GAGE - Check for correct pressure.		TN	
12. GYRO INSTRUMENTS - Check for erratic or noisy operation.		TN	
13. AUTOFEATHERING CHECK (if installed) - Refer to AUTOFEATHERING OPERATIONAL CHECK.	61-23-00 Chapter 9	TN	
14. PROPELLERS - Perform low pitch torque check.	76-00-00	TN	
15. OVERSPEED GOVERNOR – Check for proper operation.		TN	
16. PROPELLER GOVERNOR - Check governor operation (including feathering and reversing).		TN	
17. SECONDARY LOW PITCH STOP (if installed) – Check for proper operation	61-40-00	N/A	
18. IDLE RPM - Check for correct rpm (both high and low rpm).		TN	
19. AC INVERTERS - Check for proper operation.		P.	
20. AUTO-IGNITION (if installed)			
a. Check for proper operation.		TN	
b. Check for annunciator panel light illumination.		TN	
21. PROPELLER DEICER - Check for proper operation and cycling.	30 of CMM Chapter 12	TN	
22. SURFACE DEICER SYSTEM - Check for proper operation and cycling.		TN	
23. ELECTRICAL SYSTEM - Perform functional checks.	24-30-00	TN	
24. ENVIRONMENTAL SYSTEM			
a. HEATING SYSTEM – Check for proper operation			

## PHASE 3 INSPECTION (Effectivity: LM-79) (Continued)

Q. OPERATIONAL INSPECTION (Continued)	REFERENCE	MECH	INSP
b. AIR CONDITIONING SYSTEM (if installed)			
1) REFRIGERANT LEVEL – Check for proper level in the sight glass.	ACM 1001	TN	
2) Check fan only mode.			
a) Check high position.	ACM 1001	TN	
b) Check low position.	ACM 1001	TN	
3) Check cool mode.	ACM 1001	TN	
25. AUTOPILOT (if installed) - Check for proper operation as outlined in the FAA Approved Flight Manual Supplement.		Good	
26. ENGINE FIRE DETECTORS (IF INSTALLED) - Perform system test according to instructions found in FAA Approved Airplane Flight Manual.		N/A	
27. CONDITION LEVER - Check for clean shutdown at IDLE-CUT-OFF.		TN	
28. PITOT TUBE - Check for proper heating at the unit and for obstructions.		BAS	
29. LANDING AND TAXI LIGHTS - Check proper operation of all lights.		BAS	
30. OUTBOARD WING LIGHTS - Check proper operation of all navigation and strobe lights, if installed.		BAS	
31. COCKPIT LIGHTS - Check proper operation of all lights.		P.	
32. ELECTRIC ELEVATOR TRIM - Check for proper operation.		BAS	
33. ENGINE AND PROPELLER CONTROLS - Check for freedom of movement, full travel and friction-lock operation.		TN	
34. STATIC SYSTEM - Inspect alternate static air valve for operation.		TN	
35. WINDSHIELDS - Perform windshield heat operational check.		P.	

## PHASE 3 INSPECTION (Effectivity: LM-79) (Continued)

Q. OPERATIONAL INSPECTION (Continued)	REFERENCE	MECH	INSP
36. CABIN AND COMPARTMENT LIGHTS - Check for proper operation.		BPS	
37. PILOT'S AND COPILOT'S SEAT AND SEAT BELTS - Check seat adjustment mechanism and shoulder harness inertia reel for operation.		BPS	
38. CABIN SEATS AND SEAT BELTS - Check seat adjustment mechanism and shoulder harness inertia reel for operation.		N/A	
39. CABIN/CARGO ENTRANCE DOOR			
a. Check that folding steps (if installed) do not fold too soon and that they fold properly without interference.		BPS	
b. Check CABIN DOOR / CABIN DOOR OPEN annunciator for proper operation.		↓	
c. Inspect cabin door dampener (if installed) for leakage and proper operation.		↓	
40. EMERGENCY EXIT			
a. Check emergency release handle and latch mechanism for operation.		TN	
b. Check that latches open and close freely.		TN	
41. EMPENNAGE CONTROL SURFACES			
a. Check for freedom of movement.		BPS	
b. Check trim actuators and motors for smoothness of operation.		↓	
42. REAR FUSELAGE AND EMPENNAGE LIGHTS - Check operation of all lights.		↓	

PHASE 3 INSPECTION (Effectivity: LM-79) (Continued)

Q. OPERATIONAL INSPECTION (Continued)	REFERENCE	MECH	INSP
43. AILERONS - Check for freedom of movement and proper direction.		BPT	
44. AILERON TRIM TAB - Check trim tab actuator for smoothness of operation and attachment.		↓	
45. FUEL TANK HEATED VENTS - Check the operation of the heated vents. They should be warm to the touch.		↓	
46. STALL WARNING – Check for proper operation.		R.	
47. STALL WARNING VANE - Check for proper operation.		R.	
48. FLAPS AND ACTUATORS - Check flaps for noisy or erratic operation, and for free play when retracted.		BPT	
49. WING ICE LIGHTS - Check operation of lights.		R.	
50. EXTERNAL POWER RELAY OPERATIONAL CHECK - Check for proper operation.		R.	
51. ENGINE INERTIAL ANTI-ICER VANE – Check for proper operation and rigging.	12-20-00 30-21-00 30-22-00 Chapter 12	T	

## PHASE 3 INSPECTION (Effectivity: LM-79) (Continued)

R. POST INSPECTION ITEMS	REFERENCE	MECH	INSP
1. AIRPLANE CLEANED AND SERVICED AS REQUIRED.	12-20-00 Chapter 1	BAG	
2. LUBRICATE AS NECESSARY.	12-20-00	↓	
3. ENGINES INSPECTED AFTER GROUND RUN AND/OR TEST FLIGHT- Check for oil leaks, security and attachment of all components.		↓	
4. AIRWORTHINESS DIRECTIVES AND SERVICE BULLETINS - Must be reviewed and complied with as required.		↓	
5. ADDITIONAL INSPECTION REQUIREMENTS			
a. Perform Continuous Corrosion Control Inspection as required by MMS Part No. MMS1001, as revised.		BAG	
b. Ensure Special Inspection requirements are complied with at the appropriate intervals.		↓	
6. All discrepancies noted by the pilot must be checked and corrected as required.		↓	
7. EMERGENCY LOCATOR TRANSMITTER - Check for proper operation and ensure ELT is ARMED before returning airplane for service.	25-60-00	P.	
8. OXYGEN SYSTEM - Check for proper servicing.	12-10-00	BAG	
9. EMERGENCY AND SURVIVAL EQUIPMENT (IF INSTALLED) - Ensure all necessary emergency and survival equipment is installed in the airplane and is serviceable.		↑	
10. PLACARDS - Determine that all required placards are in place and legible.	11-20-00 POH	↓	
11. LOGBOOK ENTRY - Ensure that log books are filled out properly.		↓	

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PHASE 3 INSPECTION (Effectivity: LM-79) (Continued)

INSPECTION COMPLETE

DATE OF INSPECTION: 2/8/2022

MECHANIC NAME: Bill Adam Thomas

MECHANIC: A&P #: AIP 3213675

MECHANIC SIGNATURE: 

AIRCRAFT S/N: LM-79

HOBBS: 5570.8

VERIFY MODIFCATIONS – ICA (337) 

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