

C.M.A. N° 323
Folio N° 2010125

Ciliente	AEROTOP S.A. Y GEOCEN INTEGRAL LTDA				RUT	79.921.060- 6		
Dirección	PADRE MARIANO N° 10 OF 903							
Comuna	PROVIDENCIA							
Ciudad	SANTIAGO		Telefono	2357728				
Matricula	CC-CYS		Modelo	CESSNA 401-A				
N° de Serie	401A-0054		Hrs Avión	10.876,0	Año Fabricación	1969	Ciclos Avión	5.441
	Ubicación	N° de Serie	Modelo	Fecha	Horas	Ciclos		
Motores	1	815217r	T.C.M. TSIO-520-EB	09/04/2010	274	0		
	2	1000238	T.C.M. TSIO-520-EB	09/04/2010	274	0		
Helices	1	792948	3AF32C87-NR	09/04/2010	914	0		
	2	980528	3AF32C87-R	09/04/2010	914	0		

TRABAJOS A REALIZAR

M	DESCRIPCION	AREA / TALLER
O/T:	CYS09040	
1	CERTIFICACION DE AERONAVE	MECANICO
2	CERTIFICACION DE ELECTRONICA	MECANICO
3	CERTIFICACION DE INSTRUMENTOS	MECANICO
4	REVISION DE 200 HORAS	MECANICO
5	CUMPLIR D.A. 80-03 R3. INSPECCION VISUAL DE PALAS DE HELICES	MECANICO
6	CUMPLIR D.A. 96-01. USO DE MARCAS DE LIQUIDOS	MECANICO
7	CUMPLIR DAC-035D. LETREROS DE CABINA EN ESPAÑOL	MECANICO
8	CUMPLIR A.D. 2000-01-16. INSPECCION DE EXHAUST SYSTEM	MECANICO
	INSPECCION DE HEATER, CONDICION Y OPERACION, INSPECCION SISTEMA COMBUSTIBLE	MECANICO
10	INSPECCION DE TOPES DE ASIENTOS (200 HRAS)	MECANICO
11	INSPECCION DE WING SPAR FITTING (100 HRS.)	MECANICO
12	INSPECCION DE ENGINE EXHAUST SYSTEM (100 HORAS)	MECANICO
13	INSPECCION DE RODAMIENTOS DE RUEDAS (50 HORAS)	MECANICO
14	INSPECCION DE FILTROS DE AIRE DE MOTORES (50 HORAS)	MECANICO
15	INSPECCION DE VALVULA SELECTORA (100 HORAS)	MECANICO
16	CUMPLIR A.D. 2009-04-04	MECANICO



CARTILLA DE TRABAJO

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Fecha 09-01-2008
Hora 15:00

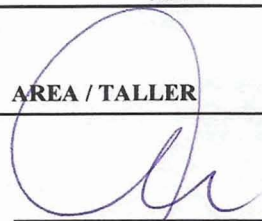
C.M.A. N° 323

Folio N° 2010125

Cliente	AEROTOP S.A. Y GEOCEN INTEGRAL LTDA					RUT	79.921.060- 6	
Dirección	PADRE MARIANO N° 10 OF 903							
Comuna	PROVIDENCIA							
Ciudad	SANTIAGO		Telefono	2357728				
Matricula	CC-CYS		Modelo	CESSNA 401-A				
N° de Serie	401A-0054		Hrs Avión	10.876,0	Año Fabricación	1969	Ciclos Avión	5.441
	Ubicación	N° de Serie	Modelo		Fecha		Horas	Ciclos
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	2	1000238	T.C.M. TSIO-520-EB		09/04/2010		274	0
Helices	1	792948	3AF32C87-NR		09/04/2010		914	0
	2	980528	3AF32C87-R		09/04/2010		914	0

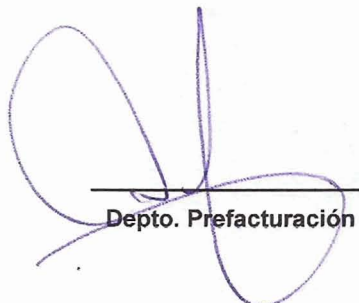
TRABAJOS A REALIZAR

M	DESCRIPCION	AREA / TALLER
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Depto. Programación

ERNESTO JAQUE N.
SUPERVISOR MANTTO
REPRESENTANTE
LICENCIADO

Control de Calidad


Depto. Prefacturación



CARTILLA DE TRABAJO

O/Trabajo: CYS09040

MECANICO

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Fecha 09-04-2010

Hora 10:47

Folio N° 2010125

C.M.A. N° 323

Cliente	AEROTOP S.A. Y GEOCEN INTEGRAL LTDA				RUT	79.921.060-6	
Dirección	PADRE MARIANO N° 10 OF 903						
Comuna	PROVIDENCIA		Ciudad	SANTIAGO		Telefono	2357728
Matricula	CC-CYS		Modelo	CESSNA 401-A			
N° de Serie	401A-0054		Hrs Avión	10.876,0	Año Fabricación	1969	Ciclos Avión 5.441
	Ubicación	N° de Serie	Modelo	Fecha	Horas	Ciclos	
Motores	1	815217r	T.C.M. TSIO-520-EB	09/04/2010	274	0	
	2	1000238	T.C.M. TSIO-520-EB	09/04/2010	274	0	
Helices	1	792948	3AF32C87-NR	09/04/2010	914	0	
	2	980528	3AF32C87-R	09/04/2010	914	0	

TRABAJOS A REALIZAR

ITEM	DESCRIPCION	ACCION CORRECTIVA	MEC.	SUP.
1	CERTIFICACION DE AERONAVE	<i>se efectuó de acuerdo a DAR-08-06</i>		<i>[Signature] 431</i>
N° Personas				
Fecha			Manual	
Inicio			Capitulo	Pag.
Termino			Revisión	
Total				
2	CERTIFICACION DE ELECTRONICA	<i>efectuado por CMA A.I.R.C</i>		<i>[Signature] 431</i>
N° Personas				
ha			Manual	
Inicio			Capitulo	Pag.
Termino			Revisión	
Total				
3	CERTIFICACION DE INSTRUMENTOS	<i>efectuado por CMA A.I.R.C</i>		<i>[Signature] 431</i>
N° Personas				
Fecha			Manual	
Inicio			Capitulo	Pag.
Termino			Revisión	
Total				



CARTILLA DE TRABAJO

O/Trabajo: CYS09040

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Fecha 09-04-2010

Hora 10:47

Folio N° 2010125

C.M.A. N° 323

Cliente	AEROTOP S.A. Y GEOCEN INTEGRAL LTDA				RUT	79.921.060-6	
Dirección	PADRE MARIANO N° 10 OF 903						
Comuna	PROVIDENCIA		Ciudad	SANTIAGO		Telefono	2357728
Matricula	CC-CYS		Modelo	CESSNA 401-A			
N° de Serie	401A-0054		Hrs Avión	10.876,0	Año Fabricación	1969	Ciclos Avión 5.441
	Ubicación	N° de Serie	Modelo	Fecha	Horas	Ciclos	
Motores	1	815217r	T.C.M. TSIO-520-EB	09/04/2010	274	0	
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	2	980528	3AF32C87-R	09/04/2010	914	0	

TRABAJOS A REALIZAR

ITEM	DESCRIPCION	ACCION CORRECTIVA	MEC.	SUP.
7	CUMPLIR DAC-035D. LETREROS DE CABINA EN ESPAÑOL	SE APLICA DAC-035D	AP 4905 A. PÉREZ	431
N° Personas				
Fecha			Manual DAC-035D	
Inicio			Capítulo	Pag.
Termino			Revisión	
Total				
8	CUMPLIR A.D. 2000-01-16. INSPECCION DE EXHAUST SYSTEM	SE EFECTUO INSPECCION DE SISTEMA DE ESCAPE DE ACUERDO AL DA 2000-01-16 ENCONTRANDOSE SIN ORS	AP 4905 A. PÉREZ	431
N° Personas				
Fecha			Manual AD. 2000-01-16	
Inicio			Capítulo	Pag.
Termino			Revisión	
Total				
9	INSPECCION DE HEATER, CONDICION Y OPERACION, INSPECCION SISTEMA COMBUSTIBLE	SISTEMA INOP.	AP 4905 A. PÉREZ	431
N° Personas				
Fecha			Manual	
Inicio			Capítulo	Pag.
Termino			Revisión	
Total				



CARTILLA DE TRABAJO

O/Trabajo: **CYS09040**

MECANICO

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Fecha 09-04-2010

Hora 10:47

Folio N° 2010125

C.M.A. N° 323

Cliente	AEROTOP S.A. Y GEOCEN INTEGRAL LTDA				RUT	79.921.060-6
Dirección	PADRE MARIANO N° 10 OF 903					
Comuna	PROVIDENCIA	Ciudad	SANTIAGO	Telefono	2357728	
Matricula	CC-CYS	Modelo	CESSNA 401-A			
N° de Serie	401A-0054	Hrs Avión	10.876,0	Año Fabricación	1969	Ciclos Avión 5.441
	Ubicación	N° de Serie	Modelo	Fecha	Horas	Ciclos
Motores	1	815217r	T.C.M. TSIO-520-EB	09/04/2010	274	0
	2	1000238	T.C.M. TSIO-520-EB	09/04/2010	274	0
Helices	1	792948	3AF32C87-NR	09/04/2010	914	0
	2	980528	3AF32C87-R	09/04/2010	914	0

TRABAJOS A REALIZAR

ITEM	DESCRIPCION	ACCION CORRECTIVA	MEC.	SUP.
4	REVISION DE 200 HORAS	SE EFECTUO inspección de 50, 100 y 200 horas de acuerdo a manual de servicio.	TS. 1813 RUL SILVA	431
N° Personas				
Fecha			Manual	D 777-21TR
Inicio			Capitulo	todos Pag. _____
Termino			Revisión	Mayo 2005
Total				
5	CUMPLIR D.A. 80-03 R3. INSPECCION VISUAL DE PALAS DE HELICES	SE EFECTUO DA 80-03 R3 DE INSPECCION DE PALAS DE HELICES SIN OBS	AP. 4905 A. PEREZ	431
N° Personas				
Fecha			Manual	DA. 80.03 R3
Inicio			Capitulo	_____ Pag. _____
Termino			Revisión	_____
Total				
6	CUMPLIR D.A. 96-01. USO DE MARCAS DE LIQUIDOS	SE APLICO DA 96-01	AP. 4905 A. PEREZ	431
N° Personas				
Fecha			Manual	DA. 96-01
Inicio			Capitulo	_____ Pag. _____
Termino			Revisión	_____
Total				



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O/Trabajo: CYS09040

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Fecha 09-04-2010

Hora 10:47

Folio N° 2010125

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Cliente	AEROTOP S.A. Y GEOCEN INTEGRAL LTDA				RUT	79.921.060-6
Dirección	PADRE MARIANO N° 10 OF 903					
Comuna	PROVIDENCIA	Ciudad	SANTIAGO		Telefono	2357728
Matricula	CC-CYS	Modelo	CESSNA 401-A			
N° de Serie	401A-0054	Hrs Avión	10.876,0	Año Fabricación	1969	Ciclos Avión 5.441
	Ubicación	N° de Serie	Modelo	Fecha	Horas	Ciclos
Motores	1	815217r	T.C.M. TSIO-520-EB	09/04/2010	274	0
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Helices	1	792948	3AF32C87-NR	09/04/2010	914	0
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TRABAJOS A REALIZAR

ITEM	DESCRIPCION	ACCION CORRECTIVA	MEC.	SUP.
10	INSPECCION DE TOPES DE ASIENTOS (200 HRAS)	Se inspeccionaron topes de asientos encontrándoselos sin dñs.	25. 1813 R. SILVA	
N° Personas				
Fecha				
Inicio			Manual	Leato. D777-21TR,
Termino			Capitulo	3-10 Pag.
Total			Revisión	Mayo 2005.
11	INSPECCION DE WING SPAR FITTING (100 HRS.)	SE INSPECCIONO ZONA AMPLERA DE ALAS	25. 1813 R. SILVA	
N° Personas				
Fecha				
Inicio			Manual	D777-21TR
Termino			Capitulo	2-57 Pag.
Total			Revisión	Mayo 2005.
12	INSPECCION DE ENGINE EXHAUST SYSTEM (100 HORAS)	SE EFECTUO INSPECCION DE 100 HRS AL SISTEMA DE ESCAPE DE ACUERDO AL MANUAL DE SERVICIO DE LA AERONAVE	4905 A. PEREZ	
N° Personas				
Fecha				
Inicio			Manual	D777-TR21
Termino			Capitulo	2-72 Pag.
Total			Revisión	Mayo 2005.



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O/Trabajo: CYS09040

MECANICO

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Fecha 09-04-2010

Hora 10:47

Folio N° 2010125

C.M.A. N° 323

Cliente	AEROTOP S.A. Y GEOCEN INTEGRAL LTDA				RUT	79.921.060-6
Dirección	PADRE MARIANO N° 10 OF 903					
Comuna	PROVIDENCIA	Ciudad	SANTIAGO	Telefono	2357728	
Matricula	CC-CYS	Modelo	CESSNA 401-A			
N° de Serie	401A-0054	Hrs Avión	10.876,0	Año Fabricación	1969	Ciclos Avión 5.441
	Ubicación	N° de Serie	Modelo	Fecha	Horas	Ciclos
Motores	1	815217r	T.C.M. TSIO-520-EB	09/04/2010	274	0
	2	1000238	T.C.M. TSIO-520-EB	09/04/2010	274	0
Helices	1	792948	3AF32C87-NR	09/04/2010	914	0
	2	980528	3AF32C87-R	09/04/2010	914	0

TRABAJOS A REALIZAR

ITEM	DESCRIPCION	ACCION CORRECTIVA	MEC.	SUP.
13	INSPECCION DE RODAMIENTOS DE RUEDAS (50 HORAS)	SE EFECTUO INSPECCION A RODAMIENTOS DE RUEDAS SEGUN MANUAL DE MANTO SIN OBS.	AP 4905 A. PEREZ	[Signature]
N° Personas				
Fecha			Manual / M. D 777-21	
Inicio			Capitulo	Pag.
Termino			Revisión	T/R. 20. MAY. 2005
Total				
14	INSPECCION DE FILTROS DE AIRE DE MOTORES (50 HORAS)	SE EFECTUO INSPECCION Y LIMPIEZA DE FILTRO DE INDUCCION, DE ACUERDO A MANUAL DE SERVICIO	AP 4905 A. PEREZ	[Signature]
N° Personas				
Fecha			Manual / M. D 777-21	
Inicio			Capitulo	Pag.
Termino			Revisión	T/R. 20. MAY. 2005
Total				
15	INSPECCION DE VALVULA SELECTORA (100 HORAS)	Se inspecciono valvula selectora quedando sin obs	25. 1013 R. SILVA	[Signature]
N° Personas				
Fecha			Manual / M. D 777-21	
Inicio			Capitulo	Pag.
Termino			Revisión	T/R. 20. 5. 05
Total				



CARTILLA DE TRABAJO

O/Trabajo: CYS09040

MECANICO

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Fecha 09-04-2010

Hora 10:47

Folio N° 2010125

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Comuna	PROVIDENCIA		Ciudad	SANTIAGO		Telefono	2357728
Matricula	CC-CYS		Modelo	CESSNA 401-A			
N° de Serie	401A-0054		Hrs Avión	10.876,0	Año Fabricación	1969	Ciclos Avión 5.441
	Ubicación	N° de Serie	Modelo	Fecha	Horas	Ciclos	
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TRABAJOS A REALIZAR

ITEM	DESCRIPCION	ACCION CORRECTIVA	MEC.	SUP.
16	CUMPLIR A.D. 2009-04-04	SE EFECTUO INSPECCION wing spar near. S/dbs.		
N° Personas				
Fecha				
Inicio				
Termino				
Total				

Manual	PD 2009-04-04	
Capitulo		Pag. _____
Revisión	_____	



Avión CC
Fecha Inicio
Fecha Término
O/T. N°

CYS
9-ABR-2010
20-ABR-2010
CYS 09040

Control y Certificación de Inspección

TIPO DE INSPECCIÓN : 200 HORAS
HORAS AVION : 10.376.4 MOTOR 1: 274.1 2: 274.1 HELICE 1: 914.4 2: 914.4

INSPECCIÓN COMPUESTA DE:

- | | |
|---|---|
| ☒ Cartilla Inspección de Rutina | ☒ Trabajos Adicionales |
| ☒ Cartilla Insp. Detallada de 200 horas | ☒ A.D. |
| ☒ Cartilla de Lubricación | ☒ D.A. |
| ☒ Estado Actual de Aeronaves (Discrepancias Pendientes) | ☒ S.B. |
| ☒ Discrepancias | ☒ Inspección Calendaria |

1. Supervisor de Mant. Sr. ERNESTO JAQUE NAVARRETE Lic. N° 431
2. Supervisor Delegado Sr. _____ Lic. N° _____
3. Encargado Programación Sr. SEBASTIAN PINO ALMENDRAS Lic. N° _____

PERSONAL QUE INTERVIENE	LIC. N°	FIRMA	ITEMS A EFECTUAR
1. Sr. <u>Alejandro Pérez Flores</u>	<u>4905</u>	<u>AP</u>	
2. Sr. _____			
3. Sr. <u>Raúl Silva C.</u>	<u>1813</u>	<u>RS</u>	
4. Sr. _____			
5. Sr. _____			
6. Sr. _____			
7. Sr. _____			
8. Sr. _____			
9. Sr. _____			
10. Sr. _____			

CERTIFICO QUE:

- ☐ Revisión firmada
☐ Discrepancias corregidas
☐ Discrepancias pendientes autorizadas
☐ Sin discrepancias

ERNESTO JAQUE N.
SUPERVISOR DE MANTTO.
REPRESENT. TECNICO
LICENCIA N° _____

FIRMA CONTROL DE CALIDAD

Condiciones de la aeronave: apta para continuar en servicio

Fecha: 20. abril. 2010

20-ABR-2010



CC-CYS

CARTILLA DE INSPECCION

MARCA: CESSNA MODELO 401A

INSPECCION CORRESPONDIENTE A: REV. 200 horas

REFERENCIA

MANUAL MANTENIMIENTO: P/N D777-21TR Fecha 30-MAY-2005

APROBADA POR

**ERNESTO JAQUE N.
REPRESENTANTE**


.....
FIRMA

FECHA 09-MAR-2010

1.9

CESSNA AIRCRAFT COMPANY
MODEL 401/402
SERVICE MANUAL

1. Inspection Requirements

NOTE: Perform a daily preflight inspection in accordance with Pilot's Operating Handbook and FAA Approved Airplane Flight Manual.

	SPECIAL INSPECTION
	200 HOURS
	100 HOURS
	50 HOURS
AIRFRAME	
1. Fuselage.....	✓
2. Windshield and Windows - Check condition.....	✓
3. Cabin Door - Check for condition and operation and latch adjustment.....	✓
4. Emergency Exit Door - Check condition and security.....	✓
5. Baggage Door - Check for condition and operation.....	✓
6. Nose Ram Air - Check clamps and hose to heat and vent system for security.....	✓
7. Heater - Check condition and operation. Inspect heater fuel system for leaks. Check all lines, connections, seals and gaskets for condition and security.....	✓
8. Seats and Seat Belts - Check for condition, security and operation.....	✓
9. Seat Stops - Verify Seat Stops are properly installed and in the right location.....	✓
10. Upholstery and Carpet - Clean.....	✓
11. Instruments - Check markings and condition.....	✓
12. Control Quadrant - Check condition and security.....	✓
13. Placards and Decals - Check for presence and legibility.....	✓
14. Empennage.....	✓
15. Vertical and Horizontal Stabilizers - Refer to expanded paragraph.....	✓
16. Wing - Check for loose rivets, cracks, loose mounting bolts and security (Ref ME73-22).....	✓
17. Wing Wheel Well - Check for damage and sealing.....	✓
18. Wing Spar Fittings - Check bolts for torque and security.....	✓
19. Lower Front Wing Spar Cap - Airplanes not modified by SK402-36; inspect per ME79-16, areas A, B and C; Airplanes modified by SK402-36; inspect per ME 79-16, areas A and B.....	✓
20. Wing Locker Door - Check for condition and operation.....	✓
21. Tip Tank Fittings - Check bolts for security.....	✓
22. Engine Support Structure - Inspection. Airplanes having completed MEB99-13, meeting the conductivity and material thickness remaining criteria of Section 10.A(1)(a) and (b) for engine beams, and for those airplanes with conductivity values less than 38% I.A.C.S. [Reference MEB99-13 Section 10.B(1)] for canted bulkheads.....	✓
23. Engine Support Structure - Inspection. Airplanes having completed MEB99-13, meeting the conductivity and material thickness remaining criteria of Section 10.A(1)(c) for engine beams, and for those airplanes with conductivity values equal to or greater than 38% I.A.C.S. [Reference MEB99-13 Section 10.B(1)(NOTE)] for canted bulkheads.....	✓
24. Nacelle Firewall Structure - Check condition and security.....	✓
25. Wing and Stub Wing - (Type A Inspection).....	✓
26. Wing and Stub Wing - (Type B Inspection).....	✓
27. Windshield Anti-Ice - Check nozzles for security and obstructions.....	✓
28. Wing Area - (Eddy Current Technique).....	✓
LANDING GEAR	
1. Main Landing Gear Actuator - Check for condition, security and specification compliance.....	✓
2. Emergency Extension System - Check for condition, operation and specification compliance.....	✓
3. Main and Nose Landing Gear Assemblies - Check for condition.....	✓
4. Rigging - Perform Landing Gear Rigging Inspection in accordance with Figure 2-7.....	✓

Figure 2-5: Inspection Chart (Sheet 1 of 8)

ERNESTO JAQUE N.
SUPERVISOR DE MANTTO.
REPRESENT. TECNICO
LICENCIA N° 431

CESSNA AIRCRAFT COMPANY

MODEL 401/402

SERVICE MANUAL

2-9

SPECIAL INSPECTION
200 HOURS
100 HOURS
50 HOURS

5. Torque Links - Check wear and condition.
6. Nose and Main Gear Retraction Linkage - Check for condition.
7. Drive Tube Seals - Check for security, position and wear.
8. Shock Strut Servicing - Check for proper servicing.
9. Nose Gear Shimmy Damper - Check fluid and condition.
10. Nose Landing Gear Pivot Bearings - Lubricate.
11. Nose Landing Gear Pivot Bearings (Modified Per MEB88-5) - Lubricate.
12. Nose Wheel Steering System - Check cable tension, travel and gimbal for condition and mounting bolts for proper torque.
13. Nose and Main Wheel Tires - Check wear, condition and tire pressure.
14. Wheel Bearings - Check and repack.
15. Brake System Plumbing - Check for leaks, hoses for bulges and deterioration; parking brake for operation.
16. Brake Assemblies - Check wear of lining and disc warpage.
17. Master Cylinders - Check fluid level.

FLIGHT CONTROLS

1. Control Column - Check for security, looseness, wear and proper rigging.
2. Aileron - Check skins and hinge for cracks and loose rivets; bell crank and stop bolt for looseness and/or jam nut security; linkage and bolt for condition. Check aileron for operation, security and travel.
3. Aileron Trim Tab - Check skins and hinge for cracks and loose rivets; linkage for cracks and wear, bolts for safety, and tab for free play and travel.
4. Aileron Trim Tab Actuator - Check for condition and security.
5. Aileron and Aileron Trim Cables - Check for tension, fraying and turnbuckles for safety. Check pulleys for condition and security.
6. Elevator - Check skins for cracks and hose rivets; bell cranks and pushrods connecting bolts and stop bolts for security of installation and also tip structure for cracks. Check elevator for operation, security and travel. Check hinges for condition, cracks and security.
7. Elevator Trim Tab - Check skin and hinge for cracks and loose rivets, linkage for cracks and wear, bolts for safety and tab for free play and travel.
8. Elevator Trim Tab Actuator - Check for condition and security.
9. Elevator and Elevator Trim Tab Cables - Check tension, fraying and turnbuckles for safety. Check pulleys for condition and security.
10. Electric Elevator Trim - Check for security, condition and travel time.
11. Rudder - Check skins for cracks and loose rivets; torque tube and connector links for security and safety. Check rudder for operation, security and travel. Check hinge for condition, cracks and security. Check stop bolts for jam nut, security and safetying. Check balance weight for security of installation and attach rib for cracks.
12. Rudder Trim Tab - Check skins and hinge for cracks and loose rivets, linkage for cracks and wear; bolts for safety; and tab for free play and travel.
13. Rudder Trim Tab Actuator - Check for condition and security.
14. Rudder and Rudder Trim Tab Cables - Check tension, fraying and turnbuckles for safety. Check pulleys for condition and security.
15. Flaps - Check linkage, bell cranks, pulleys and cables for condition, tension and security. Check hinges for cracks.
16. Flap Motor and Position Indicator - Check for travel, condition and security.
17. Flap Actuator Assembly - Check for condition, security and specification compliance.
18. Autopilot (Optional Equipment) - Check cables, attachments, pulleys and turnbuckles for tension, condition, operation and security.

Figure 2-5. Inspection Chart (Sheet 2 of 8)

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SPECIAL INSPECTION	
200 HOURS	☒
100 HOURS	☒
50 HOURS	☒

1. Engine - Wash, check for security of accessories.
2. Cowling - Wash, check for cracks, evidence of abrasion and wear.
3. Induction Air Filter - Clean.
4. Induction Manifold - Check connections for condition and drain valve for proper operation.
5. Engine Oil Pressure System - Check for leaks, bends, cracks and security.
6. Engine Oil Filter - Change oil filter element, inspect adapters.
7. Engine Oil - Change.
8. Engine Oil Breather Separator - Inspect and clean element.
9. Engine Compartment - Visually check for condition, oil leaks, fuel leaks, etc.
10. Engine Controls - Check travel and security.
11. Engine Wire Bundle - Check for condition and security.
12. Engine Mounts - Check for condition and security.
13. Engine Compartment Hose - Fuel (check fuel lines under pressure), Oil, etc. Check for deterioration, discoloration, bleaching and rubber hoses for stiffness.
14. Compression Check - Refer to Manufacturer's Service Bulletin M84-15.
15. Engine Cylinders, Rocker Box Covers and Pushrod Housings - Check for fin damage, cracks, oil leakage, security of attachment and general condition.
16. Crankcase, Oil Sump and Accessory Section - Inspect for cracks and evidence of oil leakage. Check bolts and nuts for looseness and retorquing as necessary.
17. Plugs - Clean and rotate (top right to bottom left, top left to bottom right).
18. Ignition Cables - Check condition and security.
19. Magneto - Check timing, breaker gap and security.
20. Alternator - Check brushes, leads, bearings and slip rings.
21. Alternator - Service.
22. Starter - Check brushes, commutator and electrical connections.
23. Propeller Governor - Check for oil leaks, condition and security.
24. Pumps - Fuel and Autopilot - Check for leaks, condition and security.
25. Turbocharger - Check for condition, bulges, warps and security.
26. Engine Exhaust System (Stainless Steel or Partial Stainless Steel Systems, Unknown or repaired only) Prior to 500 hour complete Disassembly Inspection - Perform a visual inspection. Refer to Engine Exhaust System in this Section.
27. Engine Exhaust System (Stainless Steel or Partial Stainless Steel Systems, Unknown or repaired only) After 500-hour complete Disassembly Inspection - Perform a visual inspection. Refer to Engine Exhaust System in this Section.
28. Engine Exhaust System (Inconel only) Perform a visual inspection. Refer to Engine Exhaust System in this Section.
29. Engine Exhaust System (Stainless Steel or Partial Stainless Steel Systems, Unknown or repaired) - Perform disassembly inspection of the exhaust slip joints and the turbocharger tailpipe. Refer to Engine Exhaust System in this Section.
30. Engine Exhaust System (Stainless Steel or Partial Stainless Steel Systems, Unknown or repaired only) - Perform a complete Disassembly Inspection. Refer to Engine Exhaust System in this Section.

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SPECIAL INSPECTION
200 HOURS
100 HOURS
50 HOURS

31. Engine Exhaust System (Inconel only) - Perform a complete Disassembly Inspection. Refer to Engine Exhaust System in this Section.
32. Exhaust System (Inconel system only, Slip Joints and Aft) - Perform a Disassembly Inspection of the exhaust slip joints and the turbocharger tailpipe.
33. Waste Gate Valve, Variable Absolute Pressure Controller and Rate Controller - Check for condition and security; visually check springs and linkage.
34. Manifold Pressure Relief Valve - Visually check for obstructions, condition, security and operation.
35. Engine Compartment Fire Extinguisher - Check system pressure, condition and security..
36. Engine Compartment Fire Extinguisher - Perform hydrostatic test.

VACUUM SYSTEM

1. Vacuum Pump - Check for condition and security.
2. Vacuum Pump Coupling - Check the drive coupling to make sure it is in satisfactory condition.
3. Pump Pad Seal - Replace seal if there is evidence of any oil leakage.
4. Vacuum Pump - Check fittings for security. If loose, tighten as outlined the maintenance section.
5. Vacuum System Hoses - Check for hardness, deterioration, looseness and bulging.
6. Vacuum System Air Filter - Inspect for deterioration and contamination. Clean or replace as required.
7. Vacuum System Relief Valve - Check for security and obstructions. Replace filter.
8. Regulator and De-ice Flow Valves - Check for security.
9. Electric Solenoid - Check electrical connection and wiring for condition and security.

PROPELLER

1. Blades - Check for nicks, cracks, scratches and blade angles.
2. Blades - Check for condition of epoxy sealant and security of retention nut (refer to Section 2).
3. Propeller Cylinder - Check for cracks and blade track.
4. Bulkhead - Check for cracks and security of crankshaft.
5. Dowel Pins - Check for looseness.
6. Propeller - Check for oil leaks.
7. De-ice System Electrical Leads - Check for condition and security.
8. De-ice System Brushes - Check for wear and seating (refer to Section 13).
9. Propeller Spinners - Wash, check for cracks and fractures.
10. Propeller Mounting - Check nuts for security.
11. Propeller Unfeathering Accumulator - Check for leaks, condition and proper charge.
12. Propeller Synchronizer - Check for condition and security.

Figure 2-5. Inspection Chart (Sheet 4 of 8)

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CESSNA AIRCRAFT COMPANY
MODEL 401/402
SERVICE MANUAL

SPECIAL INSPECTION

200 HOURS

100 HOURS

50 HOURS

FUEL SYSTEM

1. Metering Unit Filter Screen - Clean.
2. Fuel Injection System and Manifold - Inspect for leaking.
3. Fuel Injection Nozzles - Inspect orifices and clean.
4. Fuel Selector Valve - Perform operational check, feel for detents through 270 degrees; check linkage, bearings and pins for condition and security.
5. Selector Valve - Perform an operational check in accordance with Section 11.
6. Sediment Bowl - Drain.
7. Fuel Selector Valve Filter - Clean.
8. Fuel System Main - Inspect for leaks and operation.
9. Fuel System Main - Inspect plumbing and component mountings for condition and security, and inspect system for leaks.
10. Tip Tanks - Inspect mounting bolts for security; tip tanks for leaks, cracks, dents and cracks at welds.
11. Boost Pumps (Auxiliary) - Inspect for leaks, operation, vent and overboard drain for obstructions.
12. Tip Tank Vents and Nose Cap Drain - Inspect for obstructions.
13. Auxiliary Tanks - Inspect system for security and operation.
14. Heater Fuel Filter - Clean.
15. Main Tank Fuel Transfer Pump - Check security and operation.
16. Main Tank Fuel Transfer Pump Filter - Clean.
17. Wing Locker Transfer Pump - Check for leaks and security of mounting.
18. Auxiliary In-Line Pump - Check for leaks and security.
19. Auxiliary In-Line Pump Filter - Inspect and clean element (refer to Section 11).

OXYGEN SYSTEM

1. Oxygen System - Check installation, mountings and pressure.
2. Oxygen Regulator - Check pressure and rate of flow.
3. Oxygen Masks and Hoses - Check condition and clean.
4. Oxygen Cylinder - ICC-3HT/DOT-3HT - Inspect condition and Hydrostatic Test Date.
5. Oxygen Cylinder - ICC-3AA/DOT-3AA - Inspect condition and Hydrostatic Test Date.
6. Oxygen System Filler Valve - Inspect and replace O-rings if date and time are exceeded, regardless of condition.

VACUUM SYSTEM

1. Filter - Clean.
2. Relief Valve - Check security and filter for obstruction.
3. Hoses - Inspect for hardness, deterioration, looseness and bulging.

SURFACE DE-ICE SYSTEM

1. Deice System - Check for leaks.
2. Deice Boots - Check condition and security.
3. Deice Filter - Clean.

Figure 2-5. Inspection Chart (Sheet 5 of 8)

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SPECIAL INSPECTION
 200 HOURS
 100 HOURS
 50 HOURS

PITOT STATIC SYSTEM

1. Sump - Check for cracks dents, leaks and presence of water.
2. System - Leak check.
3. Altimeter- Inspect as required by 14 CFR Part 91, Paragraph 91.411 in accordance with 14 CFR Part 43, Appendix E, by authorized repair station.
4. Alternate Static Drain - Check.

AIR CONDITIONING SYSTEM (BELT-DRIVEN)

1. Compressor Drive Belt Tension - Check.
2. Compressor Drive Belt - Check condition and security.
3. Compressor Lines - Check suction, injection and discharge lines for cracks, sharp bends, and condition.
4. Condenser Fan - Check blades for nicks, looseness, and security.
5. Evaporator Fans - Check blades for nicks, looseness, and security.
6. Component Mounting - Check condition and security.
7. Condenser - Check inlet and outlets for obstruction; check coils for debris, etc.
8. Sight Glass - Check for proper charge with engine operating.
9. Condenser Fan Motor Brushes - Visually check.

AIR CONDITIONING SYSTEM (HYDRAULIC-DRIVEN)

1. Compressor Lines - Check suction, injection and discharge lines for leaks, cracks,sharp bends and condition.
2. Compressor and Motor - Check condition and security.
3. Condensers - Check inlets and outlets for obstruction; check coils for debris, etc.
4. Sight Glass - Check proper charge with engine operating and air conditioner on.
5. Hydraulic Lines - Check for leaks, security and condition.
6. Condenser Fan - Check blade for nicks, looseness, and security.
7. Condenser Fan Motor Brushes - Visually check.
8. Evaporator Fan - Check blades for nicks, looseness and security.
9. Hydraulic Fluid and Filter - Change fluid and element (P/N 6655567) (refer to expanded paragraph)

ALCOHOL WINDSHIELD ANTI-ICE SYSTEM

1. Check reservoir for proper service.
2. Check nozzles for security and obstructions.
3. Anti-ice System - Check for leaks, condition and operation.
4. Pump - Check for leaks, condition and security.

Figure 2-5. Inspection Chart (Sheet 6 of 8)

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SPECIAL INSPECTION
200 HOURS
100 HOURS
50 HOURS

ELECTRICAL SYSTEM

1. Left Console - Check wiring and terminals for condition and security.
2. Pedestal and Instrument Panel - Check wiring and terminals for condition and security.
Check bonding strap for proper ground.
3. Regulators - Check wiring and terminals for condition and security.
4. Switches - Check for security and interference.
5. Landing Gear Relay and Limit Switch - Check wiring and terminals for
condition and security.
6. Flap Limit Switch and Motor - Check wiring and terminals for condition and security.
7. Wing and Fuselage - Check wiring bundle for condition and security.
8. Battery - Check electrolyte and general condition and security.
9. Battery Cables - Check for corrosion, condition, and security.
10. Battery Box - Check for corrosion, condition, and security; clean vent tube.
11. Instrument and Interior Lights - Check lights for operation.
12. Radio and Navigation System - Check for condition and security.
13. Instrument Panel Bonding - Check bonding between stationary panel and
shock mounted panel. Resistance cannot be greater than 0.01 ohms.
14. Emergency Locator Transmitter - Check for condition, security, and battery pack
for date. Check in accordance with 14 CFR 91.207 and AC 91-44.
Check surrounding structure for corrosion.
15. Warning Lamps - Check condition.
16. Starter Relay - Inspect contact area.
17. Transponder - Check as required by FAR 91.413 Appendix F by authorized repair station.
18. Autopilot - Inspect in accordance with applicable Autopilot or IFCS Service/Parts Manual.
19. Antenna - Check mounting and security.
20. A/C Windshield Discharge Strips - Check for condition and resistance.

[Handwritten signatures and initials in the right margin, corresponding to the inspection items.]

SERVICE LETTERS/SERVICE BULLETINS/AIRWORTHINESS DIRECTIVES/SID

1. Each 100 hours of operation or every Year, whichever occurs first.
 - a. Check that all applicable Cessna Service Information Letters, Cessna Service Bulletins and Supplier Service Bulletins are complied with.
 - b. Check that all applicable Airworthiness Directives and Federal Aviation Regulations are complied with.
 - c. Make sure all logbook entries required by the Federal Aviation Regulations are complied with.
 - d. Check that all SID inspections have been complied with.

POST-INSPECTION

1. Correct all discrepancies. Replace all fairings, doors and access hole covers.
2. Ground check engine. Check ignition drop, alternator charging rate, oil pressure and general operation of components.

Figure 2-5. Inspection Chart (Sheet 7 of 8)

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SERVICE MANUAL

SPECIAL INSPECTIONS

1. At 11,000 hours and at every 1000 hours thereafter.
2. Every 50 hours or sooner, when local dust conditions exist.
3. Every 500 hours.
4. Daily.
5. First 100 hours and 200 hours thereafter.
6. Every 1200 hours.
7. Check torque first 100 hours then every 100 hours check for security, looseness and working, but DO NOT TORQUE.
8. Every 2 years.
9. Every 3 years.
10. Every 5 years.
11. Every 50 hours and at tire replacement.
12. 1500 hours.
13. 400 hours.
14. Every 1000 hours or 3 years.
15. Every engine overhaul (Manufacturer's recommended TBO).
16. Airplanes over 6500 hours, every 800 hours thereafter for areas A and B, and every 400 hours thereafter for area C.
17. Airplanes over 6500 hours and every 800 hours thereafter for areas A and B.
18. Every 250 hours of heater operation.
19. Every 6 years. After 6 years, the urethane becomes hard and brittle and the coupling should be replaced with the proper Airborne Coupling Kit as outlined on Airborne Service Letter Number 17, Dated 26 Oct. 76.
20. Every 3 years or 3000 flight hours.
21. Within 100 hours after receiving Temporary Revision 5.
22. At each engine exhaust system removal or at each engine overhaul, whichever occurs first, not to exceed 5 years.
23. At each engine exhaust system removal or at each engine overhaul, whichever occurs first, not to exceed 1 year.
24. At any indication of exhaust gas leak or an engine fire, remove heat blanket and inspect per MEB99-13. If conditions found are beyond the scope of MEB99-13, contact Propeller Product Support for assistance.
25. At the first 100-hour inspection on new, rebuilt or overhauled engines, remove and clean the fuel injection nozzles. Thereafter, the fuel injection nozzles must be cleaned at 300-hour intervals or more frequently if fuel stains are found.

Figure 2-5. Inspection Chart (Sheet 8 of 8)

OVERHAUL AND REPLACEMENT SCHEDULE

- A. Every 500 hours.
- B. Every 24 years or 4380 cycles.
- C. Every 1400 hours.
- D. Refer to latest McCauley Accessory Division Service Bulletin.
- E. On condition.
- F. Every 2800 hours.
- G. Replace the engine compartment flexible fluid-carrying rubber hoses (Cessna-installed only) every five years or at engine overhaul, whichever occurs first (this does not include drain hoses). Rubber hoses which are beyond these limits and are in a serviceable condition must be put on order immediately and then replaced in 120 days or less after receiving the new hose(s) from Cessna Aircraft Company.
- H. Every 1000 or 3 years.
- I. Not used.
- J. Multi-segmented V-band clamps must be replaced every 400 hours total time in service (TTIS) until the initial 500 hour Complete Disassembly Inspection or 500 hour Partial Disassembly Inspection is done. After you complete the Disassembly Inspection and installation of new clamps, the clamps must be replaced every 500 hours.
- K. Every 1000 hours of heater operation.
- L. Every 2000 hours.
Every 5000 hours.
- N. Not used.
- O. Not used.
- P. Not used.
- Q. Refer to the Continental Motors Maintenance Manual and Continental Motors Service Bulletins.
- R. At engine overhaul or every 4 years.
- S. At engine overhaul.
- T. Refer to the latest Woodard Governor Service Bulletin.
- U. Every 3000 flight hours or 3 years, whichever occurs first.
- V. Every ten years.
- W. Every 2000 hours or 4000 landings, whichever occurs first.

NOTE: For gearboxes on which the overhaul limits have been exceeded, do the overhaul by no later than the next 300 hours or 400 landings or May 30, 2006, whichever occurs first.

Figure 2-6. Inspection Chart (Sheet 1 of 3)